CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, July 7, 1904.

CONTENTS.

PERSONAL 1
Obituary 1
ENGINEERING SOCIETIES 1
Coming Meetings 1
ENGINEERING SCHOOLS 1
CONSTRUCTION NEWS:
Plans and Specifications on File 1
List of Contracts Pending 1
Railways 2
Street and Electric Railways 3
Light, Heat and Power Plants 3
Bridges 3
Buildings 4
Water Supply and Irrigation 5
Sewerage 5
Garbage Disposal and Street Cleaning 6
Streets and Roads 6
Manufacturing Plants 7
Miscellaneous Contracts 7
Mexico 8
Readers' Wants 8
Foreign Contracts and Export News 8
Contract Prices 9, 10
Engineering Material Prices 9
INDUSTRIAL NOTES 10
TRADE PUBLICATIONS 10
PROPOSALS 11, 12

PERSONAL.

Mr. J. L. Grant has resigned as Superintendent of the Water Department of Auburn, N. Y. He had been connected with that department continuously for 26 years.

Mr. Henry Deane, Chief Engineer for Railroad Construction in New South Wales, Australia, was recently in Colorado investigating the irrigation systems of that state.

Mr. H. M. McCartney, Assistant Chief Engineer, San Pedro, Los Angeles & Salt Lake R. R., with headquarters at Salt Lake City, has resigned his position, and will go to San Pedro, Cal., for his health.

The American Association of Park Superintendents recently presented Donald G. Mitchell, "Ik Marvel," with a silver loving cup as an appreciation of his efforts in promoting a love for outdoor life and the city beautiful.

Professor Carl C. Thomas, Instructor in Marine Engineering at the University of California, has accepted the position of Assistant Professor in Marine Engineering at the Sibley College of Mechanical Engineering, Cornell University.

Mr. Robert Spurr Weston, Assoc. M. Am. Soc. C. E., Sanitary Expert, of 14 Beacon St., Boston, Mass., has secured Mr. Albert E. Leach, Analyst of the Massachusetts State Board of Health, as Consulting Chemist on foods and drugs. He has also retained Dr. Hibbert Winslow Hill, Director of the Laboratory of the Boston Board of Health, as Consulting Bacteriologist. Mr. Weston will continue his present association with Mr. Leonard Metcalf, M. Am. Soc. C. E., Consulting Engineer.

Col. Theodore A. Bingham, Corps of Engineers, U. S. A., was appointed a Brigadier General by the President on July 1. This appointment is to take effect on July 6—when Gen. Bingham will retire. Theodore A. Bingham was born in Connecticut and was appointed to the U. S. Military Academy Sept. 1, 1875, and became a Second Lieutenant of Engineers June 13, 1879. After serving at West Point and Willet's Point, he was made engineer officer of the Department of Arizona in 1883; he was later Secretary of the Missouri River Commission. But for many years past he has been the Superintendent of Public Buildings and Grounds in Washington. His retirement is due to a late accident met with in the line of his duty which resulted in the loss of one of his legs.

Mr. M. N. Baker, of the editorial staff of this journal, has returned to New York after devoting four months to the study of municipal engineering and sanitation in Europe. The results of some of these studies in Great Britain and on the Continent have already appeared in our columns as editorial correspondence. Those letters have dealt with various phases of municipal affairs, and will be followed by several additional communications of a similar nature. The chief results of the trip, however, still await publication. They include descriptions, based on personal investigation, of some twenty-five municipal sewage works or purification plants and of many refuse destructors or furnaces. Among the sewage works visited were those at London, Sutton, Exeter, Birmingham, Manchester, Salford, Glasgow, Leeds, Leicester and Paris. The refuse destructors included those at Shoreditch, Glasgow, Bradford, Zurich, Hamburg and a number of other places. Articles on some of the sewage works and destructors will soon appear in this journal, and descriptions of all the sewage works visited will be published in book form.

OBITUARY.

Dwight A. Harris, Superintendent of the Water Department of New Britain, Conn., died in that city June 16 from gun shot wounds, inflicted with suicidal intent.

Captain Henry Chappell Aspinwall, General Superintendent of the smokeless powder department of the Du Pont Powder Co., died at the Post Graduate Hospital, New York City, June 28. Captain Aspinwall was well known as an expert on smokeless powder. He was a member of the American Chemical Society and Society of Chemical Industry.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ROADMASTERS AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo., Secy., C. E. Jones, Beardstown, Ill.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.

INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.

AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANT'S ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.

RAILWAY SIGNAL ASSOCIATION.
Oct. 11. St. Louis, Mo., Secy., B. B. Adams, 83 Fulton St., New York.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago, Secy., S. F. Patterson, Concord, N. H.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

IRON AND STEEL INSTITUTE.—The preliminary programme for the autumn meeting at New York has just been made ready. The American reception committee, with Mr. John Fritz as president and Mr. Theodore Dwight (99 John St., New York) as Secretary, have arranged for the best utilization of the time which the members will spend in this country. Special rates will be available for the ocean trip, arrangements to this end having been made by Thos. Cook & Son, of Ludgate Circus, London, E. C. The visiting members will arrive probably on Oct. 21 to 23. The New York headquarters will be at the Hotel Astor, 44th St. and Broadway. Monday, Oct. 24, will be spent in various excursions to works and places of interest in and around New York City, and in the evening the opening session of the meeting, followed by a reception, will be held. The following day it is planned to make a steamer excursion up the Hudson to West Point Military Academy. Two professional sessions are to be held on Oct. 26, morning and afternoon, followed by a dinner at the Waldorf-Astoria in the evening and a theatre-party for the ladies. The party leaves New York on the following day, spending the afternoon of Oct. 27 and all of Oct. 28 in Philadelphia. The 28th and 29th are to be spent in Washington, Nov. 1 to 3 in Pittsburg, Nov. 4 in Cleveland, Nov. 6 in Buffalo, and thence the party returns to New York in time for the steamer leaving Wednesday, Nov. 9. There will be opportunity, for those who so desire, to go from Pittsburg to St. Louis and Chicago, returning to New York in time for the steamer of Nov. 12.

VISIT OF FOREIGN ELECTRICAL ENGINEERS.—Elaborate preparations have been made by the officers of the International Electrical Congress, and by a special committee of the American Institute of Electrical Engineers, for the reception and entertainment of the delegates to this congress. The latter society has invited the Institution of Electrical Engineers (British) to hold a meeting in St. Louis during the congress, and this invitation has been accepted. A special circular tour through this country for visiting delegates and all visiting members of foreign electrical societies has been arranged by the committee. The visitors are expected to arrive at Boston about Sept. 3, or earlier. A reception will be given at Harvard University on Sept. 3, and there the party will leave for New York via Providence. Such of the visitors as land directly at New York (by Sept. 1) may go to Boston by a special excursion via Newport, R. I., leaving New York at 5.30 p. m., Sept. 1. A blanket rate, covering transportation, hotel expenses in Boston, etc., is obtainable for this excursion. When the main party reaches New York it will be entertained with an excursion by J. G. White & Co., a visit to electric power stations in the city, and a reception and dinner on the evening of Sept. 5. The special circular tour already mentioned leaves New York on the following morning, via N. Y. C. & H. R. R. R. The tour has been worked out in thorough detail, but only the main points need be noted here. The first stop is at Schenectady, N. Y., (General Electric Co.) on Sept. 6; Montreal is reached on Sept. 7 (McGill University, transmission plants, etc.), leaving the evening of Sept. 8; Niagara Falls, N. Y., Sept. 9 (hydraulic power stations, electrochemical works, etc.); Chicago, Ill., Sept. 10; Springfield, Ill., Sept. 11; St. Louis, Mo. (World's Fair and International Electrical Congress), Sept. 11 to 17, inclusive; Pittsburg, Pa., Sept. 18 and 19 (Westinghouse Electric Mfg. Co., Edgar Thomson Steel Works, etc.); Washington, D. C., Sept. 20; Philadelphia, Pa., Sept. 21; and return to New York on the same day. In all of the cities where stops are made, local reception committees have been formed for entertaining the visitors. These committees work in conjunction with the General Reception Committee of the American Institute of Electrical Engineers, of which Mr. J. W. Lieb, 55 Duane St., New York, is Chairman. The arrangements and transportation are in charge of a committee under Mr. E. H. Mullin, of 44 Broad St., New York. Information about the tours, etc., may be obtained of Mr. R. W. Pope, Secretary, American Institute of Electrical Engineers, 95 Liberty St., New York, to whom applications for joining the tours should be addressed.

ENGINEERING SCHOOLS.

UNIVERSITY OF WISCONSIN.—The University has recently celebrated the semi-centennial anniversary of its first graduating class. During the half century the school has grown from a small body of 56 students and four teachers to a modern university of more than 200 teachers and more than 3,000 students, with a college of engineering which alone annually enrolls more than 700 students. A feature of the anniversary exercises was the bestowal of the honorary degree of LL.D upon about 40 distinguished scholars and scientists. Among these were two of special interest to engineers: one upon Superintendent Otto Hilgard Tittman, of the U. S. Coast and Geodetic Survey, and one upon Mr. Alfred Noble.

An interesting feature of the ceremony, and one not prearranged, was that when Mr. Noble was escorted to the platform to receive the cardinal hood, the entire graduating class of the college of engineering, numbering 80 members, who were seated in the audience in a body immediately in front of the plant, rose with one accord and remained standing through the ceremony and until Mr. Noble had been escorted back to his seat.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
July				
7	Sewage pump sta.	New Orleans	P., S. & B. S.	6- 9
*7	Sewerage work	Saugerties, N. Y.	S.	6-23
9	Condenser sets	Washington, D. C.	S.	6-23
9	Turbo generators	Washington	S.	6-23
*12	Structural st'l wrk.	Elmira, N. Y.	P., S. & B. S.	6-23
*12	Pipe laying, etc.	Waterville, Me.	P. & S.	6-30
*14	Paving	Towson, Md.	S. & B. S.	6-23
16	Generator sets	Washington, D. C.	S.	6-30
16	Brick stack, etc.	Washington, D. C.	S.	6-30
*16	Dredging	New York, N. Y.	S.	6-30
16	Frame bldg.	Charleston, S. C.	S.	6-23
18	Water-works	Mayfield, Cal.	S.	6-30
16	Power plant apparatus	Boston	S.	6-30
30	Naval Bldg.	Bremerton, Wash.	S.	6-30
Aug.				
6	Shops, bldg.	Pensacola, Fla.	S.	7- 7

***Work advertised in Engineering News.**

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News, note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

July 8. City lighting, Pontiac, Mich. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 9. Power apparatus, Massillon, O. .... July 7
July 11. Boilers, generators, etc., Boston, Mass. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 12. Street lights, Cleveland, O. .... Jun. 16
July 15. Street lighting, Plattsburg, N. Y. .... Jun. 30
July 16. Power plant apparatus, Boston, Mass. .... Jun. 30
July 16. Generator sets, Washington, D. C. .... Jun. 30
July 18. Steam heatg. apparatus, Lawrence, Mass. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
July 18. Electric fixtures, San Diego, Cal. .... Jun. 30
July 20. Electric light bonds, Watkins, N. Y. .... Jun. 23
Advertised, Engineering News, June 23.
July 25. Power house, etc., Batavia, N. Y. .... July 7
Advertised, Eng. News, July 7 to 28.
Aug. 2. Acetylene plant, Ft. Myer, Va. .... July 7

BRIDGES.

July 7. Bridge, Hillsboro, Ore. .... Jun. 30
July 7. Bridge, South Bend, Wash. .... Jun. 30
July 7. Bridge, Albany, N. Y. .... Jun. 30
July 7. Bridge, Colville, Wash. .... Jun. 30
July 7. Bridge, iron, Chillicothe, Mo. .... Jun. 30
July 7. Bridge, Shasta, Cal. .... Jun. 16
July 7. Bridges, Fargo, N. Dak. .... Jun. 16

July 7. Bridges, Elkhart, Ind. .... Jun. 23
July 8. Bridge, Goldendale, Wash.. .... May 26
July 8. Bridge, Chicago, Ill. .... Jun. 30
July 9. Bridges, steel, Wichita, Kan. .... Jun. 23
July 9. Bridge, Troy, O. .... Jun. 23
July 11. Bridges, Newark, N. J. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.
July 11. Bridge, iron, Ripley, W. Va. .... Jun. 30
July 11. Bridge, Aberdeen, Wash. .... Jun. 30
July 11. Bridges, Plattsburg, Mo. .... Jun. 30
July 12. Bridge, Youngstown, O. .... Jun. 30
July 12. Bridges, concrete, Rockport, Ind. .... Jun. 23
July 12. Bridges, Winchester, Ind. .... July 7
July 13. Bridge, Chicago, Ill. .... Jun. 23
July 14. Bridges, Bloomfield, Ind. .... Jun. 23
July 14. Bridge, Eureka, Cal. .... Jun. 30
July 14. Bridge, Arcata, Cal. .... July 7
July 14. Bridge, Pittsburg, Pa. .... July 7
July 15. Bridge, iron, Kittanning, Pa. .... July 7
July 16. Bridge, repair, Connersville, Ind. .... July 7
July 16. Trestle, Davenport, Wash. .... July 7
July 16. Bridge, Noblesville, Ind. .... Jun. 30
July 18. Bridge, Newport, Ind. .... Jun. 30
July 18. Bridge, Los Angeles, Cal. .... Jun. 9
Advertised, Engineering News, Jun. 9.
July 19. Bridges, Columbus, O. .... Jun. 30
July 18. Bridge, Titusville, Pa. .... July 7
July 20. Trestle, timber, Chicago, Ill. .... May 26
July 20. Bridges, steel, Chicago, Ill. .... Jun. 23
Advertised, Eng. News, June 23 to July 21.
July 21. Bridges, Moscow, Idaho. .... Jun. 23
July 22. Bridge, Fort Benton, Mont. .... Jun. 30
July 23. Bridge, Denver, Colo. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.
July 25. Culvert, concrete-steel, Los Angeles, Cal... Jun. 30
July 27. Bridge, concrete-steel, Cleveland, O. ...... July 7
July 31. Bridge, Sobieski, Wis. .... Jun. 23
Advertised, Eng. News, Jun, 23 to July 14.

BUILDINGS.

July 7. Post office, Sterling, Ill. .... Jun. 2
Advertised, Engineering News, Jun. 2.
July 7. Carnegie library, Cincinnati, O. .... Jun. 23
July 7. Heating, plumbing, etc., Dover, N. H. ..... Jun. 30
July 7. Court house, Astoria, Ore. .... Jun. 30
July 8. Court house, Blakeley, Ga. .... Jun. 23
July 8. Boiler house, etc., Nebraska City, Neb. .... Jun. 16
July 10. Rebuilding school, Beloit, Wis. .... July 7
July 11. Weather bureau, Oklahoma City,, Okla. ..... July 7
July 11. Post office, Elkhart, Ind. .... Jun. 2
Advertised, Engineering News, Jun. 2.
July 12. Post office, Perth Amboy, N. J. .... Jun. 9
Advertised, Eng. News, Jun. 9 to 23.
July 12. Steel and stone work, etc., Elmira, N. Y. .. Jun. 23
Advertised, Eng. News, Jun. 23 to July 14.
July 12. Fireproofing, etc., Richmond, Va. .... Jun. 30
July 12. Heating, etc., Ames, Ia. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
July 12. School, Baton Rouge, La. .... July 7
July 12. City hall, Virginia, Minn. .... July 7
July 13. Bank building, Reidsville, Ga. .... July 7
July 13. Custom house, heating, Hartford, Conn. ..... Jun. 16
July 14. Post office, St. Joseph, Mo. .... Jun. 16
July 14. Post office extension, St. Joseph, Mo. ..... Jun. 16
July 14. Heating, sewers, etc., Indianapolis, Ind. .. Jun. 30
July 14. Jail, Olivia, Minn. .... July 7
July 14. Plumbing, heating, etc., Indianapolis, Ind.. July 7
July 15. Telephone building, Sioux City, Ia. .... July 7
July 15. Court house, Hamburg, Ark. .... Jun. 16
July 16. Frame building, Charleston, S. C. .... Jun. 23
July 16. Buildings, boiler house, Dayton, O. .... July 7
July 20. Y. M. C. A. building, Pensacola, Fla. ...... July 7
July 26. Foundation, Washington, D. C. .... July 7
Advertised, Eng. News, July 7 to 28.
July 20. Post exchange, etc., Jefferson, Mo. .... Jun. 30
July 27. Roofing, Hoboken, N. J. .... July 7
July 27. Steel cells, Mansfield, O. .... July 7
July 28. Heating and ventilating, Salt Lake City ... July 7
July 30. Jail plans, Bisbee, Ariz. .... Jun. 30
July 30. Naval building, Bremerton, Wash. .... Jun. 30
Aug. 1. Post office, Marysville, Ky. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
Aug. 1. Jail, Aberdeen, Miss. .... Jun. 23
Aug. 2. Post office, Pierre, S. Dak. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
Aug. 4. Post office bldg., Hutchison, Kan. .... July 7
Aug. 6. Shops, building., Pensacola, Fla. .... July 7
Aug. 8. Post office, Pekin, Ill. .... July 7
Advertised, Eng. News, July 7 to 21.
Sept. 10. High school, Missoula, Mont. .... Jun. 30

WATER SUPPLY AND IRRIGATION.

July 7. Water pipe, Yonkers, N. Y. .... Jun. 16
Advertised, Engineering News, Jun. 16.
July 8. Water-works, Mora, Minn. .... Jun. 30
July 10. Water-works, Libertyville, Ill. .... Jun. 23
Advertised, Eng. News, June 23 and 30.
July 11. Well, Fort Moultrie, S. C. .... Jun. 30
July 12. Pipe laying, Waterville, Mo. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 12. Water and sewer system, Browning, Mont. Jun. 23
July 13. Settling tanks, etc., Burlington, Ia. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.
July 14. Water-works, Elberton, Ga. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.
July 14. Water and sewer pipe, etc. San Diego, Cal. Jun. 2
July 16. Water-works, Eldridge, Ia. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 18. Reservoir, Lima, O. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 21.
July 18. Fire hydrants, pipe, Winnipeg, Man. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 18. Water-works, Mayfield, Cal. .... Jun. 30
July 18. Water-works franchise, Tiffin, O. .... Jun. 23
July 19. Water pipe, Wilton, N. H. .... July 7
Advertised, Engineering News, July 7.
July 23. Well, Denver, Colo. .... July 7
July 23. Water-works, Cameron, Mo. .... July 7
Advertised, Eng. News, July 7 and 14.
July 23. Water pipe and specials, Washington, D. C. Jun. 23
Advertised, Engineering News, June 23.
Aug. 18. Water supply and electric light, Italy.... Apr. 21
Advertised, Eng. News, Apr. 14 to May 5.
No date. Water-works, Russellville, Ky. .... Jun. 23
Advertised, Eng. News, June 23 and 30.
No date. Water tank, etc., Onancock, Va. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.

SEWERAGE.

July 7. Sewers, Moundsville, W. Va. .... Jun. 30
July 7. Sewers, Jersey Shore, Pa. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 7. Disposal works, sewers, Saugerties, N. Y.. Jun. 23
Advertised, Eng. News, Jun. 23 to July 7.
July 7. Sewage pumping station, New Orleans, La.. Jun. 9
July 8. Sewerage, Ashland, Ky. .... July 7
July 9. Sewers, Washington, D. C. .... Jun. 23
Advertised, Engineering News, June 23.
July 10. Sewers, Alliance, O. .... July 7
July 11. Sewers, Ashland, Wis. .... July 7
July 11. Sewer, Great Falls, Mont. .... Jun. 23
July 11. Sewers, Muncie, Ind. .... Jun. 23
July 11. Sewers, Cottage Grove, Ore. .... Jun. 30
July 12. Sewage disposal, Marshall, Tex. .... Jun. 30
July 12. Sewer system, Arcata, Cal. .... July 7
July 13. Sewers, Cincinnati, O. .... July 7
July 14. Sewerage, Xenia, O. .... July 7
July 14. Sewers, Boise, Idaho .... Jun. 16
Advertised, Eng. News, Jun. 16 to 30.
July 15. Sewers, Jerseyville, Ill. .... May 19
July 16. Trunk sewer, Newport, Ky. .... July 7
Advertised, Engineering News, July 7.
July 18. Sewers, Ogden, Utah. .... Jun. 30
July 19. Sewers, Boston, Mass. .... July 7
July 20. Sewers, Elmwood Place, O. .... Jun. 30
July 21. Sewers, Ames, Ia. .... Jun. 30
Advertised, Engineering News, Jun. 30.
July 21. Sewers, Ithaca, N. Y. .... July 7
Advertised, Engineering News, July 7.
July 22. Sewers, Dayton, O. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
July 25. Sewerage, Eureka Springs, Ark. .... July 7
Aug. 2. Drain, etc., Roanoke, Va. .... July 7
Advertised, Eng. News, July 7 to Aug. 4.

STREETS AND ROADS.

July 7. Roads, Paoli, Ind. .... Jun. 30
July 7. Paving, etc., Berkley, Va. .... Jun. 30
July 7. Paving, brick, Jersey Shore, Pa. .... Jun. 30
July 7. Grading, etc., New York, N. Y. .... Jun. 30
July 7. Macadamizing, Cincinnati, O. .... Jun. 30
July 7. Paving, etc., Cumberland, Md. .... Jun. 30
July 7. Paving, vitrified brick, Marinette, Wis. ..... Jun. 23
July 7. Paving, Toledo, O. .... Jun. 16
July 8. Roads, Albany, N. Y. .... Jun. 23
Advertised, Eng. News, June 23 and 30.
July 8. Macadamizing, Cincinnati, O. .... Jun. 30
July 9. Macadamizing, etc., English, Ind. .... Jun. 30
July 9. Road, Allentown, Pa. .... Jun. 23
July 9. Road, Greenfield, Mass. .... July 7
July 11. Graveling, Alliance, O. .... July 7
July 11. Road, Great Falls, Mont. .... July 7
July 11. Road, gravel, Sullivan, Ind. .... July 7
July 11. Paving, asphalt, Little Rock, Ark. .... July 7
Advertised, Engineering News, July 7.
July 11. Graveling, Vincennes, Ind. .... July 7
July 11. Sidewalks, etc., New York, N. Y. .... July 7
July 11. Sidewalks, Muncie, Ind. .... July 7
July 11. Paving, etc., Jacksonville, Fla. .... Jun. 23
July 11. Paving, Toledo, O. .... Jun. 23
July 11. Road, macadam, Camden, N. J. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 11. Macadamizing, Sacramento, Cal. .... Jun. 30
July 11. Macadamizing, Swarthmore, Pa. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
July 12. Paving, asphalt, Cincinnati, O. .... Jun. 30
July 13. Roads, Providence, R. I. .... Jun. 30
July 13. Road, Cleveland, O. .... Jun. 30
July 13. Macadamizing, Freehold, N. J. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 7.
July 13. Road, Woodstown, N. J. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 13. Roads, Freehold, N. J. .... Jun. 23
Advertised, Eng. News, Jun, 23 to July 14.
July 14. Roads, Sullivan, Ind. .... Jun. 23
July 14. Paving, Towson, Md. .... Jun. 23
Advertised, Engineering News, June 23.
July 14. Paving, etc., Akron, O. .... July 7
July 15. Paving, Watertown, N. Y. .... July 7
Advertised, Engineering News, July 7.
July 15. Curbing, Hartington, Neb. .... July 7
July 15. Grading, Cheshire, Conn. .... July 7
July 15. Grading, Des Moines, Ia. .... Jun. 30
July 16. Road, gravel, Portland, Ind. .... Jun. 30
July 16. Paving, asphalt, Seattle, Wash. .... July 7
July 16. Roads, Pittsburg, Pa. .... July 7
July 16. Roads, Port Townsend, Wash. .... July 7
July 18. Paving brick, Binghamton, N. Y. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 14.
July 19. Paving, Columbus, O. .... Jun. 30
July 19. Paving, Oberlin, O. .... Jun. 30
July 19. Paving, etc., Montpelier, Ind. .... Jun. 30
July 19. Macadamizing, New York, N. Y. .... July 7
July 19. Road, Dillon, Mont. .... July 7
July 20. Curbing, Des Moines, Ia. .... July 7
July 20. Macadamizing, Cincinnati, O. .... Jun. 30
July 20. Roads, Ottawa, O. .... Jun. 30
July 20. Grading, Chicago, Ill. .... May 26
July 21. Macadamizing, etc., La Crosse, Wis. .... Jun. 30
July 22. Paving, Cincinnati, O. .... Jun. 30
July 22. Paving, etc., Salt Lake City, Utah .... July 7
Advertised, Eng. News, July 7 to 28.
July 23. Roads, Greenville, O. .... July 7
July 25. Macadam, Winston, N. C. .... July 7
Advertised, Eng. News, July 7 and 14.
July 25. Road, Bowling Green, O. .... July 7
July 25. Paving, brick, South Bend, Ind. .... Jun. 23
July 30. Roads, Greenville, O. .... July 7
Aug. 1. Paving, vitrified brick, Toledo, O. .... July 7
Aug. 2. Roads, Napoleon, O. .... July 7

MISCELLANEOUS CONTRACTS.

July 7. Drafting materials, Washington, D. C. ..... Jun. 23
July 7. Wall, Binghamton, N. Y. .... Jun. 23
Advertised, Eng. News, June 23 and 30.
July 7. Levee construction, Sacramento, Cal. .... Jun. 23
July 7. Foundations, New Orleans, La. .... May 5
Advertised, Eng. News, May 5 to July 7.
July 7. Concrete canal, New Orleans, La. .... May 5
Advertised, Eng. News, May 5 to July 7.
July 7. Stairway and incline, Boston, Mass. .... Jun. 30
July 7. Structural steel, Chicago, Ill. .... Jun. 30
July 8. Garbage wagons, Dayton, O. .... Jun. 30
Advertised, Eng. News, Jun. 30 and July 7.
July 8. Dredging, Wilmington, Del. .... Jun. 30
July 8. Dredges, Spain (Foreign) .... May 12
July 9. Limestone, Washington Barracks, D.C. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 9. Shop, Bremerton, Wash. .... Jun. 9
July 9. Condenser sets, Washington, D. C. .... Jun. 23
July 9. Steam turbo generators, Washington, D.C.. Jun. 23
July 10. Garbage, Kansas City, Mo. .... July 7
July 11. Cribs, Wheeling, W. Va. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 11. Dredging, Jacksonville, Fla. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 14.
July 11. Fire hose, McKeesRocks, Pa. .... Jun. 30
July 11. Cement, etc., Allegheny City, Pa. .... Jun. 30
July 12. Transformers, etc., Washington, D. C. .... Jun. 30
July 12. Chain cables, Washington, D. C. .... Jun 30
July 12. Steamboat repairs, New York, N. Y. 30
July 13. Dam, Pittsburg, Pa. 16
Advertised, Eng. News, Jun. 16 to July
July 13. Dams, Rock Island, Ill. 16
Advertised, Eng. News, Jun. 16 to July
July 14. Railway (Foreign), Peru 21
July 14. Tow boat and snag boat, Ottawa, Ont. 30
July 14. Dam, Waco, Tex. 30
July 15. Canal construction, Leetville, Nev. 2
Advertised, Eng. News, Jun. 2 to July 6.
July 15. Electric railway, Hamilton, Ont. 7
Advertised, Eng. News, July 7 and 14.
July 16. Boal bunkers, Washington, D. C. 7
July 16. Fire-alarm system, Watertown, Wis. 7
July 16. Dredging, Jacksonville, Fla. 23
Advertised, Eng. News, June 23 to July 2
July 16. Dredging, New York, N. Y. 23
Advertised, Eng. News, June 23 to July 2
July 16. Brick stack, etc., Washington, D. C. 30
July 16. Generator, sets, Washington, D. C. 30
July 18. Dredging, New Orleans, La. 23
Advertised, Eng. News, Jun. 23 to July 14
July 18. Breakwater, Cleveland, O. 30
July 18. Steel filing case, Bradford, Pa. 30
July 18. Rock, New Orleans, La. 7
July 18. Lock gates, Egypt (Foreign) 7
July 19. Naval supplies, Washington, D. C. 7
July 19. Lamps, bolts, motor, etc., Washington, .. Jun. 30
July 21. Dredging, Jacksonville, Fla. .... Jun. 23
Advertised, Eng. News, June 23 to July 21
July 22. Electric lighting, Spain (Foreign) .... July 7
July 23. Drainage system, Delaware City, Del. .... July 7
July 23. Drainage system, Delaware City, Del. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 21.
July 24. Dry-dock, Belgium (Foreign) .... Apr. 21
July 24. Fort improvements (Foreign), Roumania .. July 7
July 25. Coal shed, Fort Screven, Ga. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 28.
July 25. Stone, Boston, Mass. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 28.
July 26. Screws, shovels, bolts, etc., Washington .. Jun. 30
July 26. Dredging, Chicago, Ill. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 28.
July 27. Cement, Cincinnati, O. .... July 7
July 28. Concrete culvert, Richmond, Va. .... Jun. 30
Advertised, Eng. News, Jun. 30 to July 21
July 30. Dredging, Washington, D. C. .... July 7
Aug. 1. Dredging, Portland, Me. .... July 7
Advertised, Eng. News, July 7 to Aug. 4.
Aug. 1. Water-works (Foreign), Austria-Hungary. July 7
Aug. 9. Breakwater, Washington, D. C. .... July 7
Aug. 15. Rolling stock, Siam (Foreign) .... Apr. 21
Aug. 17. Locks, dams, Vicksburg, Miss. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 28.
Aug. 17. Locks and dams, Vicksburg, Miss. .... Jun. 23
Advertised, Eng. News, Jun. 23 to Aug. 18.
Aug. 24. Excavating, cofferdams, Chicago, Ill. .... Jun. 30
Aug. 25. Cathedral plans (Foreign), Roumania .... July 7
Oct. 15. Plans for harbor, Sweden (Foreign) .... Apr. 21
No date. Street railway franchise, Shanghai, China. May 19
Advertised, Eng. News, May 19 to Jun. 30.
No date. Dredging, Perth Amboy, N. J. .... July 7
Advertised, Engineering News, July 7.

RAILWAYS.

BATESVILLE & JACKSONPORT.—It is reported that construction will begin not later than Aug. 1 on this road, that was chartered May 18, 1903, to be built from Batesville to Jacksonport, a distance of about 22 miles. The road will follow the line of the old Batesville and Brinkley Railroad, chartered Dec. 1, 1881, to build from Batesville to Brinkley. The line for it was surveyed the following year. H. Devereux, Little Rock, Pres.; Ernest Neill, Batesville, Secy.; Arthur Neill, Little Rock, Gen. Atty. All the necessary surveys and profiles have been filed. H. Devereux will be Ch. Engr.

CHICAGO, BURLINGTON & QUINCY.—The $40,000 machine shop at Havelock, Neb., recently burned, will be rebuilt soon. I. S. P. Weeks, Lincoln, Neb., is Ch. Engr. of Nebraska lines.

It is said that officials of the Burlington and the Great Northern systems have announced that the 100-mile line from Sioux City to Omaha, surveyed a year ago, will be constructed this year by the Burlington, to connect the two Northern securities systems.

CHICAGO & ALTON.—Notice has been given that a special meeting of stockholders has been called by the board of directors at the general office of the company, Railway Exchange Building, Chicago, Ill., on Aug. 31, to authorize the issue of bonds, as follows: (1) $5,000,000 additional bonds for providing funds for requirements for betterments made, undertaken, or contracted for, after Jan. 1, 1900; (2) $350,000 additional bonds for providing funds for acquiring additional railroad in extension of the railroad of this company, viz: The railroad formerly belonging to the Quincy, Carrollton & St. Louis Railway Co. To authorize and approve the purchase by this company of that railroad. Alex Millar, Secy.

CHICAGO & NORTHWESTERN.—Extensive repair shops for the Nebraska division may be built at Fremont, Neb. E. C. Carter, Ch. Engr., Chicago, Ill.

EDMONTON & STAVE LAKE RY.—Company has filed in the land office at Edmonton, N. W. T., plans for a railway north from Edmonton for a distance of 50 miles. The plans are signed by William Mackenzie, Toronto, as Pres.

EL DORADO LUMBER CO.—Lewis Moreing, of Stockton, Cal., has secured the contract for constructing eight miles of railroad for the El Dorado Lumber Co., of Placerville. Cost, $57,000.

FLORIDA.—Pensacola, Fla., report states that the proposition of Hon. Hoke Smith, of Atlanta, and A. B. Steele, Vice-Pres. of the Hawkinsville & Alabama Southern Ry., to build a railroad into Pensacola from Andalusia, Ala., a distance of about 80 miles, has been accepted by the Chamber of Commerce and citizens. The citizens are to donate $30,000 and procure suitable franchise privileges for the road. The road will connect at Andalusia with the Central of Georgia, which is believed to be interested in the movement.

MONTREAL, NEPISSING & GEORGIAN BAY.—James Pearson, McKinnon Bldg., Toronto, Ont., writes us that bill has passed both houses incorporating this company and will become a law upon being signed by Governor-General. Road will be 375 miles long, from Montreal to mouth of French River via Ottawa.

NEW YORK CENTRAL & HUDSON RIVER CO. has acquired a tract of land between city limits of Buffalo, N. Y., and Tonawanda, for proposed terminal facilities.

NORTHERN PACIFIC.—The contract for extending the Bitter Root branch of the Northern Pacific from Hamilton to Darby, Mont., a distance of 12 miles, has been awarded Winters, Parsons & Noomer, and work has commenced.

ORANGE & NORTHWESTERN.—Company has applied for permission to issue $75,000 of additional bonds for construction. H. L. Montandon is Ch. Engr., Orange, Tex.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

SEABOARD AIR LINE.—Citizens of Clayton, Ala., and Mt. Andrew are urging the Air Line to extend its road from Union Springs through Mt. Andrew to Clayton. W. P. Gary, of Mt. Andrew, is interested.

WISCONSIN & MICHIGAN RY.—This company has acquired the Holmes logging road and will extend it from Nathan, Mich., to connect with the Holmes road at Marinette, Wis.

NEW INCORPORATIONS AND CHARTERS.

BAY MINETTE & FORT MORGAN.—Ala.—Charter has been granted this company. Capitalized at $200,000. The incorporators are T. P. Hannon and W. W. Olney, of Chicago, and W. D. Stapleton, of Bay Minette, Ala. The road is to be 62 miles in length, running from Bay Minette, on the line of the Louisville & Nashville Railroad, to Fort Morgan, on the Gulf.

BEAUMONT, SOUR LAKE & WESTERN.—Tex.—Company has been chartered to succeed the former Beaumont, Sour Lake & Port Arthur Traction Co., an electric railway, and has amended its charter to provide for the construction of a railway from Port Arthur, Tex., via Beaumont, Sour Lake and Batson, to Houston, Tex., a distance of about 105 miles. The railway from Beaumont to Sour Lake, 20 miles, has been constructed. G. W. Meeker is Pres., and R. C. Duff, Secy., Beaumont, Tex.

COLORADO, OKLAHOMA & SOUTHWESTERN.—Okla.—This company, recently incorporated, is surveyed from Weatherford, Okla., to Woodward, Okla., and from Hydro to Gage, Okla., it is reported by the "Tradesman Pink Sheet Daily Bulletin." About 65 miles right of way contracts and other valuable concessions have been secured. Construction will commence soon. C. M. Cade, Pres.; J. H. Dillon, Vice-Pres.; H. E. Bonebrake, Secy.; P. A. McCarthy, Ch. Engr. General office, Weatherford, Okla.

GULF & NORTHWESTERN.—Tex.—The Gulf & Northwestern, recently incorporated, is projected from Waco, Tex., by way of China Springs, Cayote, Meridian, Iredell, Daffau, Stephensville and Huckaby to the coal fields in the vicinity of Thurber or Strawn, about 100 miles. Hon. W. M. Knight, Pres.; P. A. McCarthy, Vice-Pres. and Gen. Mgr.; N. R. Morgan, Secy. General office, Meridian, Tex.

INTER-CALIFORNIA.—Cal.—Line has been incorporated to run from Old Beach, a station on the Southern Pacific line in San Diego county, into Mexico, crossig the boundary line near Mexecala. The road will double back again into San Diego county and terminate at a point on the Southern Pacific system six miles west of Yuma. The track will be 215 miles long. Capital stock, $4,320,000. William F. Herrin, Ch. Counsel for Southern Pacific, San Francisco, is one of the principal stockholders, it is reported.

LEECH LAKE & NORTHERN.—Minn.—Company, with a capital of $50,000 has been incorporated. The main office will be in St. Paul. Incorporators are M. H. McCarthy and W. H. Day, Jr., of Dubuque, Ia., and Alvin E. Clapp, of St. Paul.

OMAHA & NEBRASKA.—Neb.—Articles of incorporation have been filed for this company, with a capital stock of $11,500,000. The terminals will be in Omaha and three miles south of Hastings, Neb. The road can use either steam or electricity. The incorporators are Anthony Texter, C. J. Helm, C. H. Deeter, F. J. Helm, A. G. Buski, all of New York. D. C. Page is attorney for the company. It will go through Douglas, Saunders, Butler, Polk, York, Hamilton, Clay and Adams counties.

NEW MEXICO MIDLAND RY.—N. Mex.—Company has been incorporated to build from San Antonio, N. Mex., to Carthage coal fields. Incorporators are Delos A. Chappell, of Denver, Colo.; Henry M. Dougherty, of Socorro; Richard C. Hills and Frederick W. Whiteside, of Denver, and J. Taylor Moore, of Hastings, Colo. Road is to be 15 miles long. The principal office of the company is to be at Santa Fe. Capital stock, $500,000. It is reported that the Colorado Fuel & Iron Co. is interested in this line.

PORTLAND, SALEM & WEST SIDE RY.—Ore.—Incorporated by Frank Brewster, Robt. Balentine and Chas. Atherton. Cap., $500,000. Company will build a main line from Portland on the west side to Salem, a distance of 48 miles; branch line to Hillsboro and a line from Salem to Hillsboro, a distance of 15 miles. The motive power will be either electricity or steam.

STREET AND ELECTRIC RAILWAYS.

MAPLEWOOD, MASS.—The Maplewood & Danvers Street Ry. Co. is to build a line from the Lynnfield Hotel through Lynnfield Center to Lowell St., in Wakefield. The new line will extend from Lowell St. through Vernon St. and across Strong's meadow to Nahant St., where it will connect with the new line in Saugus.

PITTSFIELD, MASS.—The Pittsfield Street Ry. Co. has filed plans for its proposed extension through Ward Six with Engineer Fobes of the Board Public Works, and it is probable that the line will be built in the near future.

SOUTHBURY, CONN.—Engineers representing the Woodbury & Seymour Street Ry. Co. have made a survey of the proposed road from Woodbury to the Highland division railroad station at Southford in the town of Southbury. This is a part of the contemplated line from Woodbury to Seymour. The company was chartered at the last session of the General Assembly and it has a capital stock of $400,000. The incorporators are Floyd F. Hitchcock and Levi E. Curtis, of Woodbury; Christian Strobel, of Waterbury, and Frederick L. Averill, of New Haven.

ALBION, N. Y.—Preparations are being made by the Albion Electric Ry. Co. to begin construction of their road from Lockport to Rochester. The first portion of the road to be constructed will be that from Spencerport to Rochester. Teams are being hired by the company and rights of way are being bought by Henry H. Brown, of Spencerport. Work will be commenced soon. Lorenzo Burrows is Pres.

ROCHESTER, N. Y.—The Board of Estimate and Apportionment will hold a meeting for the purpose of approving ordinance granting a franchise to the Rochester Ry. Co. to extend its tracks in Joseph and Portland Aves. J. H. Finucan is Ch. Engr.

HARRISBURG, PA.—A charter was issued at the State Department to the Elk Street Passenger Ry. Co. to construct a line 17 miles long in Elk County, connecting Ridgway, Johnsonburg and St. Mary's. Capital, $102,000.

NEW ORLEANS, LA.—The Directors of the New Orleans Rys. Co. have appropriated $1,500,000 for improvement of the conduit systems, the building of a power station, the construction of a lighting gasholder at the gas works and other improvements. The power station is to augment the equipment that is now located on Market St., and when completed will be the largest power house in the South. The gasholder is to be built on the site of the gas plant, back of the Charity Hospital. Geo. Denegre is Secy.

COLUMBUS, MISS.—Plans are under way for the building of an electric railway here. Local capitalists are planning the building of the line. Work to be started at once.

HUNTINGTON, IND.—Arrangements are being made at North Manchester for the incorporation of a company to build a traction line connecting this city with South Bend, by way of Bippus, North Manchester, Rochester and Maxinkuckee.

LANSING, MICH.—Articles of incorporation of the Battle Creek & Grand Rapids Inland Lakes Traction Co. were filed with the Secretary of State June 25. The company is organized with $520,000 capital and proposes to construct an electric railway from Battle Creek to Gull Lake, Hickory Corners, Prairieville, Orangeville, Gunn Lake, Yankee Springs, Bowen's Mills, Green Lake and Crosby to Grand Rapids, a distance of 65 miles.

LANSING, MICH.—Articles of incorporation have been filed by the Battle Creek & Grand Rapids Inland Lakes Traction Co., capital $520,000. The purpose of the company is to build an electric road from Battle Creek through to Gull Lake, Hickory Corners, Prairieville, Orangeville, Gunn Lake, Yankee Springs, Bowen's Mills, Green Lake, Crosby and Grand Rapids, a distance of 65 miles. The stockholders are residents of Battle Creek.

SAGINAW, MICH.—The Saginaw Southern Ry., which has a franchise to build an electric line from Saginaw to Owosso, is said to be financed and will soon begin the work of construction. The Saginaw Southern is also to be built from Saginaw to Caro, and it is also proposed to build from Bay City to Saginaw on the east side of the river, and also branch off near Crow Island and run a line to Vassar and Caro.

LINCOLN, ILL.—O. A. Farrar, Box 187. City Cr. Engr., Springfield, Lincoln, Boomington, Pekin & Peoria Electric Ry. Co., writes us that the surveys for the proposed line have been completed between Lincoln and Springfield. Contracts for grading this portion of the line will be let in about two weeks. The capital stock has been increased from $50,000 to $300,000.

MINNEAPOLIS, MINN.—The Twin-City Traction Co. is taking figures on a car shed. Hollow concrete construction, 270 × 320 ft., steel trusses and cast-iron posts. Cost, $200,000.

LINCOLN, NEB.—Articles of incorporation have been filed with the Secretary of State for the Omaha & Nebraska Central Ry., with a capital stock of $1,500,000. The terminals will be in Omaha, and three miles south of Hastings. The road can use either steam or electricity. The incorporators are: Anthony Texter, C. J. Helm, C. H. Deeter, F. J. Helm and A. G. Buski, all of New York. D. C. Page is attorney. The projected road will tap a rich farming section now isolated from railroads. It will go through Douglas, Saunders, Butler, Polk, York, Hamilton, Clay and Adams Counties.

COLUMBIA, MO.—The City Council has granted a franchise to the Missouri Central Electric Ry. Co., allowing it to construct a line and operate cars through Walnut St. This line, as projected, will run from Kansas City to St. Louis, passing through the principal towns of the route. C. McDonald, of Kansas City, may be able to inform.

HAMILTON, ONT.—Bids asked by Hamilton Radial Electric Ry. Co., 128 King St. East, until July 15 for extending railway, consisting of clearing, grading, fencing, excavation, embankments, bridge piers and abutments in concrete and stone work. Wm. C. Hawkins, Gen. Mgr. (Advertised, Engineering News.)

LIGHT, HEAT AND POWER PLANTS.

BATAVIA, N. Y.—Bids are asked until July 25 for additions and alterations to the power house and laundry, steam apparatus, laundry equipment, conduits, steam piping and electric wiring for the N. Y. State School for the Blind. G. L. Heins, State Arch., Albany. (Advertised, Engineering News.)

HEMPSTEAD (L. I.), N. Y.—A 50-year franchise has been granted to the Queens Borough Gas & Electric Co. by the Nassau County Supervisors, to lay mains, erect poles and string wires, etc., here, for the purpose of furnishing gas and electricity for light, heat and power.

BROOKLYN, N. Y.—The Kings County Lighting Co. has filed a certificate merging with it the Kings County Gas & Illuminating Co. The certificate is signed for the Kings County Lighting Co. by Charles H. Werner, Pres., and Ashley T. Cole, Secy.

HARRISBURG, PA.—The United Gas Improvement Co. will expend $75,000 improving local plant, including new machinery, buildings and extensions.

McKEESPORT, PA.—James Brown, Jr., Cy. Clk., writes us that an ordinance is pending looking to the erection of a municipal light plant.

BELAIR, MD.—Glencove Power & Mfg. & Supply Co., recently chartered has been organized to develop water power and transmit eelctricity. Chas. A. Andrew, Pres.; Jas. T. Jones, Secy.

BALTIMORE, MD.—A mortgage deed of trust from Joseph Schreifer and wife to Gebard Butke, trustee, for $100,000 has been filed at the office of the Clerk of the Circuit Court at Towson. The money realized from sale of certain bonds is to be used for developing the gas plant recently erected by Mr. Schreifer, who has secured a franchise from the Highways Commission to lay gas mains in Highlandtown, Canton and Orangeville.

FORT MYER, VA.—Bids are asked until Aug. 2, for addition to acetylene gas plant at this post. Capt. G. C. Barnhardt, Q. M.

RICHMOND, VA.—The Electric Light & Power Co., with a capital stock of $5,000, has been chartered. John Axford, Pres.; J. M. Hooker, Vice-Pres.; and E. J. Harvey, Secy. It is the purpose of the company to have the electric plant in working order by Sept. 1.

BIRMINGHAM, ALA.—Henry C. Jones, of Montgomery, has completed preliminary details for the construction of an immense water power plant at Cherokee Bluff on the Tallapoosa River. Work will begin as soon as the financial arrangements are definitely fixed. The plant will develop 25,000 HP. that will be transmitted to Birmingham, a distance of 85 miles. The plant, when completed, including 85 miles of transmission wiring to Birmingham, will represent an investment of $2,000,000.

NEW ORLEANS, LA.—The New Orleans Railway Co. will expend $1,500,000 in improvements, including the erection of power station, construction of lighting gasholder and improving conduit systems in this city, it is reported.

COVINGTON, KY.—A municipal light plant will be erected. An issue of $75,000 of bonds has been authorized. Plans not yet prepared. W. E. Gunn, Cy. Engr.; George Beach, Mayor.

BEDFORD, O.—Improvements to the plant of the Electric Light & Power Co., incorporated with $50,000 capital, will shortly be commenced. S. E. Smith, Supt.

MASSILLON, O.—Bids are asked by the Board of Trustees, Massillon State Hospital, until July 9 at the office of Frank L. Packard, Columbus, O., for erecting cottage No. 5; also erecting in power house, a 450-HP. engine, two 250-HP. boilers, one 300-KW. generator and a switchboard.

HAMILTON, O.—The Board Public Service has asked council for authority to expend $20,000 in the improvement of the city gas plant. New retorts and purifiers will be needed chiefly. J. B. Connaughton, Clk. R. N. Andrews, Supt.

GLENVILLE, O.—Bids are asked by M. W. Miles, Secy. Bd. Pub. Service, until July 20, for electric lighting of streets.

COLDWATER, O.—R. C. Stueve, of Wapakoneta, has secured a 10-year franchise to erect and operate an electric light plant.

CLEVELAND, O.—The National Lighting & Heating Co. has filed articles increasing capital stock from $2,000 to $10,000.

NILES, O.—The Niles Electric Co. has been incorporated by F. W. Stillwagon, W. H. Smiley, Robert Weiss, and others with capital of $10,000.

DETROIT, MICH.—S. J. Muruhy, 40 Moffat Bldg., Detroit, has a petition before the common council for a franchise to lay mains through city streets, that will probably be granted, it is said. A power house, to cost about $75,000, would then be erected.

GRAND LEDGE, MICH.—The Grand Ledge Electric Power Co. has been organized with $50,000 capital to build a plant and to acquire water power and supply electric power near Grand Ledge, by E. C. Jarvis, of Lansing, and Joseph H. Bootes and Glen D. Smith, of Jackson. The company proposes to utilize the water in Grand River for generating electric power, and will either acquire the water privileges or build a dam near this city.

KALAMAZOO, MICH.—At an election held June 27 the proposition to issue $20,000 bonds for an electric light plant was voted.

SPRING VALLEY, WIS.—Plans for an electric light plant have been adopted by the Northwestern Electrical Equipment Co., it is reported.

DULUTH, MINN.—L. N. Case, of Board of Water & Light Comrs., has been directed to make estimate of cost of putting in gas mains in Lakeside end of city.

LIBBY, MONT.—A. B. Johnson, City, has received a franchise from Board of County Commissioners of Flathead County for the establishment of an electric lighting plant and a telephone system here.

DALLAS, TEX.—Plans for the $500,000 power plant for the Dallas Electric Light & Power Co. will be prepared by Wm. N. Patten, Mecnanical Engr., of Boston, Mass.

FORT WORTH, TEX.—Northern Texas Traction Co. will increase capacity of the power house at Lake Erie about 50%, it is reported. The work will commence soon.

SEATTLE, WASH.—The American Gas Co. will install its plant at once, and will lay about 500 miles of new pipe.

SEATTLE, WASH.—The Seattle Lighting Co. will spend $150,000 in extending its gas system into outlying districts. At the present time it is arranging to supply gas to Green Lake, Brooklyn and other remote districts.

SALEM, ORE.—The Union Light & Power Co. will spend $50,000 in improvements at its water power plant at Silverton.

ALBANY, ORE.—W. D. DeVarney, of Seattle, Wash., has secured franchise to construct an electric plant and telephone system here.

EUREKA, CAL.—Fire in Station A of the Eureka Lighting Co.'s plant destroyed the entire building and its contents. The property was owned by the Pacific Coast Gas & Lighting Co., of San Francisco. It will be immediately rebuilt on a large scale. Loss, about $20,000.

ALAMEDA, CAL.—The Board of Trustees will advertise for bids for a 150-KW. generator to replace the 90-KW. generator now in commission at the municipal electric light works.

LOS ANGELES, CAL.—Bids are asked by Pacific Branch N. H. D. V. S. Soldiers' Home, Los Angeles County, until July 20 for installation of arc lamp circuit. T. J. Cochrane, Treas.

PALO ALTO, CAL.—Resolution of intention has been passed and approvel to sell franchise to construct a gas plant in Palo Alto and to lay pipes for carrying gas along city streets. Bids for franchise are asked by J. D. Boyd, Town Clk., until Aug. 18.

LADYSMITH, B. C.—Council has taken steps toward installing an electric light plant and introducing a telephone system here.

BRIDGES.

NEW HAVEN, CONN.—Bids for constructing superstructure of Kimberly Ave. rolling lift bridge were received as follows: Berlin (Conn.) Construction Co., $63,462; Owego (N. Y.), Bridge Co., $65,185; Penn Bridge Co., Beacon Falls, Pa., $68,217; Boston (Mass.) Bridge Works, $63,768; American Bridge Co., 100 Broadway, New York, $62,002 (awarded contract); The Lewis F. Shoemaker Co., Philadelphia, Pa., $62,660; Scherzer Rolling Life Bridge Co., Chicago, Ill., $63,659. C. W. Kelly, Cy. Engr.

NEW HAVEN, CONN.—The New York, New Haven & Hartford Railroad Co. has awarded the contract for construction of steel approach for the new four-track bridge at Cos Cob on the New York division to the Pacific Steel Co. of New Jersey. Work will be begun at once.

HACKENSACK, N. J.—The Freeholders Committee on the bridge over the Saddle River at Dundee drive rejected all bids, owing to the inability to decide upon the lowest bidder.

CHAMBERSBURG, PA.—The County Commissioners have awarded the contract for a new bridge over the Conococheague Creek at the W. M. R. R. station to Nelson & Buchanan for $17,760.

KITTANNING, PA.—Bids asked by Supervisors of Manor Township until July 15 for erection of an iron bridge 42 ft. long and 16 ft. wide over Garretts Run.

PITTSBURG, PA.—Bids asked by Ed. M. Bigelow, Dir. Dept. Pub. Wks., until July 14 for building the Oakland bridge.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

TITUSVILLE, PA.—Bids asked by city until July 18 for building a bridge at Rose St. over Trout Run. Specifications furnished by City Engineer. W. M. Dame, Cy. Clk.

WEST NEWTON, PA.—A new bridge will be erected across the Youghiogheny River at this place by the County Commissioners of Westmoreland County.

SPARTANBURG, S. C.—The Virginia Bridge Co. was awarded the contract for building a steel bridge on Lawson's Fork for $2,250.

CORDELE, GA.—The City will construct a bridge of trestle type 1,360 ft long. Address City Engineer.

CLEVELAND, O.—Bids asked by Cuyohoga County Commissioners until July 27 for constructing a concrete-steel bridge in East Cleveland Township. Plans and specifications on file in office of Wm. H. Evers, County Surveyor. Julius C. Dorn, Clk.

CONNERSVILLE, IND.—Bids asked by Fayette County Commissioners until July 16 for the repair of bridge across Garrison Creek. John W. Ross, County Audr.

WINCHESTER, IND.—Bids asked by Randolph County Commissioners until July 12 for construction of concrete bridges and arches, concrete substructures for bridges and steel bridges. Plans and specifications on file in office of John H. Boltz, County Audr.

PAWNEE, ILL.—The Pawnee Railroad Co. is arranging to put in new steel bridges over its crossings at Sugar and Brush Creeks. C. F. Clendenen is Audr.

PEKIN, ILL.—The Bridge Committee of the Board of Supervisors awarded the contract for construction of a concrete arch over Cole's Creek, in Groveland Township, to the Illinois Bridge & Iron Co., of Lincoln, for $1,550.

FARGO, N. D.—The Fargo Bridge & Iron Co. has been awarded the contract for construction of the street railway bridge between this city and Moorhead for the Fargo & Moorhead Street Ry. Co. Cost, $16,000.

KANSAS CITY, MO.—Arrangements have been made for the construction of a foot bridge 200 ft. long and 26 ft. high from West Eighth St. across the tracks of the Missouri Pacific and Wabash railroads to St. Louis Ave. The West Eighth Street Viaduct Improvement Co., recently formed, will pay the expense of constructing the viaduct at a cost of about $10,000.

BELEN, N. MEX.—The Santa Fe R. R. will construct seven bridges from 400 to 700 ft. long in Abo Pass. A. F. Robinson, Topeka, Kan., is Bridge Engr.

DAVENPORT, WASH.—Bids asked by Lincoln County Commissioners until July 16 for constructing a county bridge on Proebstel road, having 11 spans of pile trestle. A. S. Brown, County Clk.

EVERETT, WASH.—W. D. Barkhuff, Cy. Engr., writes us that the contract for construction of the proposed bridge across Snohomish River was awarded to Wisconsin Bridge Co., June 27, for $35,000. The bridge will consist of a swing span about 233 ft. and two fixed spans of about 124 ft. The foundations to be concrete filled cylinders.

SEATTLE, WASH.—Plans for the two new steel bridges to be erected according to the railroad companies' terminal franchises on Main and Jackson Sts. have been filed with R. H. Thomson, Cy. Engr. The bridges are much the same in design and will cost about $55,000 each. The Jackson St. structure will be 115 ft. long and 85 ft. wide; the one on Main St. 125 ft. long and 68 ft. wide. Both will have roadways and a walk on each side.

ARCATA, CAL.—Bids asked by W. H. Haw, County Clk., until July 14 for constructing a highway bridge across Redwood Creek.

GLENDALE, CAL.—A petition has been presented to the Board of Supervisors asking for a bridge across the Los Angeles River on the Grand Boulevard.

LOS ANGELES, CAL.—A new trolley car bridge over the Los Angeles River is planned to be a substitute for the abandoned viaduct and important changes are to be made in the railroad facilities of the Southern Pacific at the River Station.

MODESTO, CAL.—Advertisement was ordered by Board of Supervisors for sealed bids for construction of trestle approaches to the Tuolumne City bridge, per plans and specifications in Clerk's office. Bids to be received not later than July 13.

SAN JOSE, CAL.—Clerk was instructed by the Council to advertise for bids relative to the repairing of the Santa Clara St. bridge which spans Guadalupe Creek.

STOCKTON, CAL.—The ordinance and judiciary committee reported favorably to Council on the ordinance authorizing the Board of Public Works to build a bridge over Miner channel at Union St.

OCHRE RIVER, MAN.—This municipality will submit a debenture by-law to be voted on July 2 for the purpose of raising $25,000 with which to build roads and bridges. Thos. S. Curtis is Secy.-Treas.

TORONTO, ONT.—The Massey-Harris Co. has applied to the City Council for permission to tunnel under and build a bridge over Strachan Ave. and appropriate 14 ft. of that avenue for its new buildings. In return it offers to pave the street with asphalt and construct a granolithic sidewalk. Engineer Rust favors the application.

BUILDINGS.

BOSTON, MASS.—Bids are asked until noon, July 7, by the Schoolhouse Commissioners for mason, carpentry and other work in the Mt. Vernon Primary School, Mt. Vernon St., West Roxbury.

The Boston Club will erect a 7-story clubhouse on Bromfield St. Total cost, $700,000. Wheelwright & Haven, Archs. Cabot Chase, H. C. Burridge and others are directors.

LAWRENCE, MASS.—Bids are asked by Jas. Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until July 18 for low pressure steam heating apparatus, complete in place, for the post office.

LYNN, MASS.—E. W. Maynard, Boston, has prepared plans for new Lynn Theater. Building will be of ornamental brick, stone trimmings, 136 × 70 ft. It will seat 1,500 people. Cost, $75,000. Contracts will be let soon. Frank G. Harrison is Mgr.

PROVIDENCE, R. I.—Bids are asked until July 14 by the Joint Standing Committee of the City Council for the construction of a 10-room primary school building on Regent Ave. Fred. E. Field, Arch., 48 Custom House St., City; J. H. Hall, Chn.

NEW ROCHELLE, N. Y.—G. Robinson & Son, 39 Hancock Pl., New York, have plans for a flat building for Geo. A. Fisher, City. Brick and stone, structural iron, composition roof, electric and gas fixtures, steam heat, etc. Cost, $51,000.

NEW YORK, N. Y.—Plans have been filed by Eidlitz & McKenzie, 1123 Broadway, Archs., for alterations to a 15-story brick office building at 9-13 Dey St., for New York Telephone Co., 15 Dey St. Cost, $450,000.

By L. Giller, Arch., 416 Broadway, for a 6-story brick lofts and store, 47 × 67 ft., at 14-16 Park Pl., for Chrystie estate, 299½ Broadway. Cost, $60,000.

By Cady, Bergh & See, Archs, 6 West 22d St., for a 7-story brick medical school, 50 × 58 ft., at 435-437 First Ave., for New York University. Cost, $60,000.

By L. F. Micher, 103 East 125th St., Arch., for two 6-story brick flats, 50 × 86 ft., on 139th St., east of Lenox Ave., for M. Hoffmann, 58 East 118th St. Cost, $100,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for a 6-story brick flat, 100 × 85 ft., at 101st St. and Manhattan Ave., for R. M. Silverman, 352 West 118th St. Cost, $200,000.

By same architect, for a 6-story brick flat, 50 × 86 ft., on 133d St., east of Madison Ave., for Gamp & Altman, 256 West 116th St. Cost, $52,000.

By James F. Meehan, Arch., 1123 Hewitt Pl., for five 5-story brick tenements, 37 × 90 ft., on Longwood Ave., west of Hewitt Pl., for James F. Meehan Co., 1123 Hewitt Pl. Cost, $150,000.

By same architect, for two 5-story brick tenements, 39 × 90 ft., on Longwood Ave. for Michael Meehan, 879 East 169th St. Cost, $60,000.

NEW YORK, N. Y.—Boehm & Coon, 31 Nassau St., will erect a 12-story apartment house on Central Park West, between 73d and 74th Sts. Clinton & Russell, 32 Nassau St., will prepare plans. Cost, $2,000,000.

NEW YORK, N. Y.—John E. Nitchie, 150 Nassau St., is taking bids for a turkish bath, at 1265 Broadway, it is reported. Marble, steel and wire work, terra cotta blocks, metal cornice, various tiling, Keene's plaster, plastic ornaments, gas and electric fixtures, bath tubs, etc., will be required. Cost, $35,000.

The Board of Estimate has authorized an issue of $550,000 bonds for a new court house for Bronx Boro. The revised plans for the new Bellevue Hospital, involving an estimated outlay of $9,400,000, have been referred to Comptroller Grout.

Plans have been filed with the War Department for the reconstruction of Fort Hamilton, in New York Harbor. Col. George C. Greenough, of the Artillery Corps, has prepared drawings, etc. It is said by military men that these extensive improvements will give New York one of the best fortifications of any port in the United States. Modern buildings will replace present ones. Present reservation will be increased to 300 acres by adding Dyker Meadow Park.

CAMDEN, N. J.—The Camden County Building Commission will readvertise for bids for lighting, ventilating and heating the proposed $700,000 court house. The contract had been awarded to Keller, Pike & Co., but one of the bidders contested the award in the courts, and all bids were then rejected.

HOBOKEN, N. J.—Bids are asked until July 27 for furnishing a new roof for ambulance house and for repairing roof and furnishing new leaders for City Hall.

JERSEY CITY, N. J.—Bids were received for new High School building. Herman Probst is reported to be lowest bidder for entire contract at $328,877. Lowest bidders, for sub-contracts, were: Mason work, William Robertson & Son, $237,697; carpenter work, Robert Cook, $42,800; painting, John Bauer, $3,750; plumbing and gas fitting, Hetherton Bros., $9,896; heating and ventilating, Frank P. Schroeder, $29,752; electric work, Francis Bros. & Jellet, $5,450; total, $329,346.

BUTLER, PA.—McCollum & Dowler, Bank for Savings Bldg., Pittsburg, have plans for a hotel for Nixon Bros., City. Six stories, brick and terra cotta, steam heat, fireproof, mantels, baths, etc. Cost, $100,000.

CLEARFIELD, PA.—Beezer Bros., Archs., of Pittsburg, have plans for a $200,000 7-story bank and hotel building at Second and Market Sts., for the Clearfield National Bank. Fireproof, steam heating, iron work, etc. Building will contain 50 bath rooms. Bids for work are being taken.

HOLLIDAYSBURG, PA.—W. L. Plack, Arch., 1208 Chestnut St., Philadelphia, informs us that bids were due on July 5 for erection of County Insane Asylum here. No date has been fixed for receiving bids for mechanical equipment. Buildings will cost about $100,000.

NEWCASTLE, PA.—D. L. Smith, City, will erect 100 dwelling houses in the Third Ward. Cost, $150,000.

NEW KENSINGTON, PA.—Nirdlinger & Simpson, Fitzsimons Bldg., will receive bids for Y. M. C. A. building. Brick and terra cotta, steam heat, gas and electric fixtures, mantels, baths, gymnasium. Cost, $40,000.

PHILADELPHIA, PA.—John Stafford has obtained a permit to build the 6-story addition to the St. James Hotel, at 1226-28 Walnut St. Cost, $200,000.

PITTSBURG, PA.—Jas. T. Steen, Smith Bldg., has awarded contract to Kerr & Fox for the addition to the Dollar Savings Bank, Fourth Ave. Stone, steam heat, gas and electric light, bank and office fixtures. Cost, $80,000.

Fred. J. Osterling, Times Bldg., will prepare plans for new Masonic temple in Fifth Ave. Four stories, stone, steam heat, gas and electric light, elevators. Cost, $300,000. Geo. W. Guthrie, Diamond St., is interested.

ROCHESTER, PA.—New hospital, to cost $70,000, will be erected for the Passavant Home for Epileptics. Beezer Bros., Pittsburg, Pa., are Archs.

BALTIMORE, MD.—William B. Tuthill, 287 Fourth Ave., New York, is preparing plans for an 11-story office building for the Home Friendly Society, to be erected at 100-102 West Fayette St. Stone, brick and terra cotta, 63 × 36 ft., steel framework, two electric elevators, plumbing, electric lighting, etc. Cost, $100,000.

PHILADELPHIA, PA.—Chas. B. Keen, Arch., 1218 Chestnut St., is preparing plans for an apartment house. Brick, stone and steel, fireproof, ten stories. Cost, $200,000.

Doyle & Doak, 1509 Sansom St., have been awarded contract for a church at Broad and Venango Sts., for St. Paul's Reformed Episcopal Church. Stone, one story. Cost, $100,000.

BALTIMORE, MD.—Parker & Thomas, Archs., have been commissioned to prepare plans for a 4-story store building to be erected at Baltimore and Charles Sts. for the "Hub." Steel, gray brick and terra cotta; 50 × 110 × 70 ft., forming an "L," two passenger elevators and a street lift for freight. Cost, $100,000.

Henry D. Harlan, Court House, Robert H. Smith, 10 East Lexington St., and Frank N. Hoen, Hoen Building, Lexington and North Sts., have been selected as a committee by the Court House Commission, Wyatt & Nolting, Archs., Builders' Exchange Building, will prepare plans and specifications for repairing the St. Paul St. end of the court house; $150,000 is available for the nece[ssary re]pairs.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

Bids were to have been submitted on July 6 fo[r con]struction of Continental Building. The contrac[tors who] have been requested to submit estimates are the [Murphy] Construction Co., the Tidewater Building Co., th[e Thomp]son-Starrett Construction Co., and James Stewa[rt & Co.] Estimated cost about $250,000.

Builders' Exchange Directors have appointed [a] Committee on Architects' Plans and Contracts: [W.] Loewenstein, William Ferguson, C. F. Meislahn, [B.] Wallis and C. D. Pruden.

The Calvert Building & Construction Co., 604 C[alvert] St., has awarded contract to Norcross Bros., [for the] Hotel Rennert, for the reconstruction of the Eq[uitable] Building. Sperry, York & Sawyer, Archs., Build[ers' Ex]change. The cost of the repairs on this building, [together] with those on the Calvert Building, which are bein[g made] by the George A. Fuller Co., builder, 203 North S[t., will] be about $1,200,000, it is said.

BALTIMORE, MD.—John E. Marshall & Son, 30[5 North] St., have invited bids on materials for a store at 10[...] Baltimore St., for the Tucker Estate. Brick an[d stone,] four stories, steam heating, elevator and electric li[ghting].

Haskell & Barnes, Archs., Central Savings Bank B[ldg.], will open bids on July 12 for a store and office b[uilding] at 104 North Charles St., for Dr. Geo. A. Fleming. [Brick,] stone and steel, five stories.

Henry L. Maas, 906 Aisquith St., has been award[ed the] contract for an addition to St. Joseph's Hospital. B[rick,] three stories, 100 × 40 ft. Cost, $50,000. Steam he[ating] and electric lighting.

B. F. Bennett, Howard St., has the contract for a 6-story store and office building, 40 × 95 ft., for Thompson & Thomas, at Light and Baltimore Sts. Brick, stone and steel, fireproof, steam heat, elevators, electric light, plumbing. Cost, $100,000.

The Murphy Construction Co., New York, has the contract to erect the Donnell building, at Gay and Lombard Sts. Six stories, 60 × 78 ft., brick, stone and steel, steam heat, elevators, electric light, tiling, skylights and toilets. Cost, $150,000.

Leonard H. Fowler has the contract for the 4-story office building, 34 × 105 ft., for J. Charles and Seth Lee Linthicum, 314 St. Paul St., at Gay and Baltimore Sts. Brick, stone and terra cotta, steam heat, electric light. Cost, $50,000.

Parker & Thomas, 311 North Calvert St., have plans for the new building of the Maryland Life Insurance Co., on South St. Stone, steel, brick and terra cotta, 60 × 125 ft., steam heat, elevators. Cost, $100,000.

Mottu & White, Builders' Exchange, have completed plans for the Presbyterian Church, at 10th St. and Wallbrook Ave., Wallbrook. One story, 80 × 46 ft. Cost, $45,000.

E. D. Preston, Builders' Exchange, has the contract for a 5-story warehouse, 50 × 100 ft., at 115 West Baltimore St., for the Safe Deposit & Trust Co. Stone, brick and steel, steam heat, elevators, electric light. Cost, $75,000.

James Stewart, Philadelphia, Pa., has the contract for a warehouse, at 36-40 Hopkins Pl., for Simon Rosenburg and others. Five stories, 72 × 126 ft., brick and stone, steam heat, elevators, electric light. Cost, $80,000.

Wyatt & Nolting, Builders' Exchange, have plans for a 5-story warehouse, 60 × 100 ft., at German and Charles Sts., for the Safe Deposit & Trust Co., trustee. Cost, $60,000.

Thomas Marshall, Eutaw St., has the contract for a 5-story warehouse, 50 × 100 ft., at 117 West Baltimore St., for the Abell estate. Stone, brick and steel, steam heat, electric light, elevators. Cost, $75,000.

WASHINGTON, D. C.—Bids are asked until July 26 for laying the concrete foundations required for the new building for the National Museum. Bernard R. Green, Supt. of Construction. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked by the Governor of the Soldiers' Home for construction of the new barracks and mess hall, it is reported; 250 × 250 ft., fireproof, three stories. Cost, $350,000.

LYNCHBURG, VA.—C. W. Hancock & Son have contract to erect Academy of Music. Building will have a seating capacity of 1,300 persons. Cost, $40,000.

RICHMOND, VA.—Bids are asked by Capitol Building Commission, at office of Governor of Virginia, until July 12 for fireproofing and additions to the State Capitol. Noland & Baskerville, Archs., Chamber of Commerce Bldg. A. J. Montague, Chn. Com.

ROANOKE, VA.—The contract for the erection of the Norfolk & Western Ry. station has been awarded to John P. Pettyjohn & Co., of Lynchburg. Cost, about $100,000.

BLUEFIELD, W. VA.—The Board of the Bluefield Institute, care of Edwin Mann, received bids until July 6 for erecting an addition to girls' dormitory; also separate bids for erecting a hall or main building adjoining the present central building.

WHEELING, W. VA.—Sisey & Faris, Archs., will receive bids until July 16 for construction of an 8-story brick and steel fireproof office building for Col. Henry Schumlbach. Cost, $450,000.

GOLDSBORO, N. C.—Bids are asked until July 12 for furnishing certain furniture to be installed in post office. H. A. Taylor, Acting Secy., Treasury Dept., Washington, D. C.

REIDSVILLE, GA.—Bids are asked by the Tattnall Bank until July 13 for the erection of a bank and office building. George C. Thompson, Arch., Dublin, Ga.

FORT JAY, FLA.—The bid of the Northeastern Construction Co., of New York, $24,906 in amount, has been accepted for the construction, etc., of one double set of officers' quarters.

PENSACOLA, FLA.—Bids are asked for the construction of a 3-story brick building, 70 × 120 ft., for the Pensacola Y. M. C. A., until July 20. J. H. Sherrill, Building Secy.

PENSACOLA, FLA.—Bids are asked until Aug. 6 for construction of shops and office buildings 61 × 287 ft., with boiler house and brick stack, at Navy Yard. Mordica T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C. Specifications for this work are on file at office of Engineering News.

FT. McPHERSON, GA.—B. B. Buck, Q. M., informs us that no steps have been taken yet toward erecting buildings, etc., with $68,000 appropriation, recently approved for that purpose.

BIRMINGHAM, ALA.—$100,000 has been voted for a court house for Jefferson County.

MOBILE, ALA.—The St. Joseph's Catholic congregation will erect a church. Cost, $75,000.

MONTGOMERY, ALA.—Plans have been prepared by W. F. Denny, 1018 Prudential Building, Atlanta, Ga., for a fireproof, steel and concrete hotel building, 100 × 150 ft., for the Montgomery Hotel Co. Cost, $175,000. Bids for construction will be received soon.

BATON ROUGE, LA.—Bids are asked by W. H. Bynum, Mayor, until July 12 for erecting a school. Andrew J. Bryan, Arch., Hennen Bldg., New Orleans.

NEW ORLEANS, LA.—Bids were received by the New Orleans Jockey Club, 612 Hennen Bldg., on July 6 for the construction of a grandstand and paddock building. Rathbone E. De Buys, Arch., 421 Carondelet St. S. H. Bell, Secy.

CHATTANOOGA, TENN.—John Heibeck, 407 Cedar St., has been awarded the contract for the construction of the new plant of the Davis Hosiery Mill Co., recently incorporated with a capital stock of $100,000. G. H. Miller, Pres.; W. B. Davis, Gen. Mgr.; Adams & Schneider, Archs.

CINCINNATI, O.—The "Enquirer" states that the Union Terminal Co., that is to be organized soon to build a union passenger station here, will be chartered with a nominal capital of $100,000; in addition there will be $8,000,000 of 4% preferred stock. Under the plans that have been prepared the depot building and passenger train shed will be about 1,200 ft. long, and will extend from Court to Canal St. The tracks to reach the new station, both from the east and west end of the city, will be built under ground. There will be 12 tracks in the train shed. The application for a charter for the Union Terminal Co. will be made within the next week or so, it is said.

CLEVELAND, O.—Frank L. Packard, New Hayden Bldg., Columbus, has prepared plans for an infirmary building in connection with State Hospital. Two stories, 181 × 140 ft., stone, combination light fixtures, nickel plumbing. Cost, $100,000.

DAYTON, O.—Bids are asked by the Board of Trustees, Dayton State Hospital, until July 16 for the construction of an infirmary building. F. M. Andrews, Arch. Sealed proposals will also be received for the construction of an engine and boiler house and stack. Peters, Burns & Pretzinger, Archs. A. F. Shepherd, M. D., Secy.

LORAIN, O.—Jas. L. Devenny, Pittsburg, will erect 80 frame dwelling houses here, to cost $1,500 each.

MANSFIELD, O.—Bids are asked by the Board of Managers until July 27 for construction of 100 steel cells, more or less, as may be required in the East Cell Wing of the Ohio State Reformatory. A. E. Gardner, Supt. of Construction; Fred. S. Marquis, Secy.

YOUNGSTOWN, O.—New Masonic Temple, six stories high, costing $150,000, will be erected here. Owsley & Boucherle, City, are Archs.

ST. JOSEPH, MICH.—Masonic temple, to cost $50,000, will be erected.

CHICAGO, ILL.—Plans for proposed Hyde Park Y. M. C. A. will be prepared by Forst & Granger. Cost, $120,000.

CHICAGO, ILL.—St. Francis D'Assissi R. C. Church, West 12th St. and Newbury Ave., that was recently destroyed by fire, is to be rebuilt. Cost, $60,000. Plans will be prepared by W. J. Brinkman.

PEKIN, ILL.—Bids are asked by Treasury Department, Washington, D. C., until Aug. 8 for the construction (excepting heating apparatus) of the post office here. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

HUTCHINSON, KAN.—Bids are asked until Aug. 4 for the construction (except plumbing, heating apparatus, electric conduits and wiring) of post office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

OLIVIA, MINN.—Bids are asked until July 14 for the erection of a county jail and sheriff's residence, connected. Kinney & Detweiler, Archs. H. J. Lee, County Auditor.

ST. LOUIS, MO.—St. Ann's Widows' Home and Foundling Asylum has secured a permit for the erection of a new home at 5351 Page Ave.; 3½ stories high, fireproof. Cost, $210,000.

LITTLE ROCK, ARK.—Little Rock School Board has accepted the plans of Frank W. Gibb, Arch., City, for a new $100,000 high school building to be erected at Seventh and Louisiana Sts.

OZARK, ARK.—The contract for the new Franklin County court house has been awarded to E. L. Koonce, of Warren, at $61,000. F. W. Gibb, of Little Rock, is Arch.

GUTHRIE, OKLA.—Bids were received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (except heating apparatus), of the post office and court house here. Robert Butke, Hastings, Neb., was lowest bidder, at $69,500.

GUTHRIE, OKLA.—Robert Bueke, of Hastings, Neb., was lowest bidder, at $69,500, for building post office here.

DENVER, COLO.—Charles M. Stebbins, who died in Prussia recently, left $300,000 to be used for the erection and maintenance of an orphanage. William R. Stebbins, 1860 Sherman Ave., is an executor.

LOS ANGELES, CAL.—The Bilicke-Rowan Fireproof Building Co. has been incorporated, with capital of $800,000, by A. C. Bilice, Robert A. Rowan, and John S. Mitchell. Building will be erected at Fifth and Spring Sts. Cost, $800,000. Steel frame and concrete and tile floors. John Parkinson, Arch.

OCEAN PARK, CAL.—Rapid progress is being made on the "Venice" of Ocean Park by Abbott Kinney. A contract has been let for the foundation of a ship hotel to be stationed 200 ft. from the beach, which will be erected at cost of $200,000. An amusement pavilion is to be erected after architecture of the famous buildings in Venice and a theater constructed. H. C. Wyatt, of the Mason Opera House, Los Angeles, is interested.

SAN FRANCISCO, CAL.—Plans are almost completed for the transformation of the Bishop block into the Grand Pacific Hotel. It will be nine stories high. Cost, about $500,000. H. E. Law is owner of the property. Meyer & O'Brien are Archs.

CARSON, NEV.—W. D. Lovell, of Des Moines, Ia., has been awarded the contract for all improvements at the Indian school near Carson, including a water supply, a half dozen new buildings, heating and gas plants, etc.

PRICE, UTAH.—Bids are asked until July 21 for building two jail cells, 6 × 6 × 6.7 ft. and one hallway dividing new cells from old ones, to be 5 × 12, 11½ × 6.7 ft. high. S. J. Harkness, Chn.

SALT LAKE CITY, UTAH.—Bids are asked until July 28 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for steam heating and ventilating apparatus, complete in place, for court house and post office building.

WATER SUPPLY AND IRRIGATION.

MILTON, N. H.—Bids asked by Board of Water Commissioners until July 19 for laying about 7 miles of water pipe, setting special castings, valves, gates, hydrants, etc. Isaac S. Whiting, Chas. E. Weeks, Comrs. (Advertised, Engineering News.)

GOSHEN, N. Y.—Board of Water Commissioners plan to build a dam about 500 ft. below present one and to make extensive improvements of present water mains. H. J. Yerg, Clk. Bd. Village Trustees.

NEW YORK, N. Y.—Mayor McClellan has approved an appropriation of $1,000,000 for the Water Department, about half of which will be spent in Brooklyn for replacing old water mains with new.

SAUQUOIT, N. Y.—Sauquoit Water-Works Co. has been incorporated with $10,000 capital. Z. P. Townsend and Chas. K. Garlick are interested.

JERSEY CITY, N. J.—Specifications for laying new mains in Newark and Pacific Aves., Brunswick St., etc., prepared by C. A. Van Keuren, Ch. Engr. Street & Water Bd., have been adopted.

CHAMBERSBURG, PA.—Borough Council is reported to be considering cleaning of the Siloam dam, erection of a breastworks about the dam, and the laying of a large water main from Siloam pumping station across the creek to North Main St.

HOMESTEAD, PA.—The citizens of Homestead will vote on proposition to issue $25,000 bonds for erection of new sand filtration plant for borough water-works.

PITTSBURG, PA.—J. G. Evans, J. C. Bily and F. A. McKenry have formed the Vermont Water Co., the Colorado Water Co., the Arizona Water Co., and the Idaho Water Co., and will apply for charter July 21. Various companies will furnish water to the boroughs of Bellevue, Emsworth, Ben Avon and Avalon.——T. A. Gillespie & Co. and Jas. McNeil & Bros. Co. were the lowest bidders on the new intake pipe for the water department at Erie, Pa. The amount of pipe required is two miles. The former firm bid $8.55 and the latter $8.56 per ft. on steel pipe. Contract will be awarded July 10, and approximates $250,000.

TREVERTON, PA.—Zerbe Run Water Co. has been granted charter to supply water to North Franklin Colliery and this place. Reservoir will be built and mains laid to town. Incorporators have also applied for charter to furnish water to Bear Valley and Burnside. W. J. Richards.

WASHINGTON, D. C.—The Secretary of the Interior has withdrawn from all forms of disposal 1,013,760 acres of public land in Nebraska for incorporation in what is known as the North Platte irrigation project.

WHEELING, W. VA.—Water Board has a number of sites for proposed storage reservoir under consideration.

BREVARD, N. C.—City has voted $25,000 bond issue for water-works.

COLUMBIA, S. C.—Commission on new water supply, Dr. J. W. Babcock, Member, has reported to the Council. Three plans were under consideration as follows: Supply from Congaree Creek, at cost of $522,210; supply from Dent Pond at cost of $348,000, and supply from Broad and Saluda Creeks, to cost $274,890. J. L. Ludlow, Winston-Salem, N. C., is Consult. Engr.

WILLACOOCHEE, GA.—Town will have bill introduced in legislature to authorize $10,000 bond issue for public improvements, which include water-works and electric light plant.

PRATT CITY, ALA.—Steps are to be taken soon, according to reports, for increasing city's water supply.

CORINTH, MISS.—City, it is stated, will purchase water-works of J. W. Taylor for $49,400.

DONALDSONVILLE, LA.—The Murphy Iron Works, of New Orleans, has been awarded the contract for pumping station at $20,000, by the Lafourche Levee Board.

JEFFERSON CITY, TENN.—Council has granted franchise to Carson and Newman College to lay a system of water-works from a large spring on the farm of A. R. Swann, east of the city, to the college campus.

KNOXVILLE, TENN.—City will vote on a proposition to issue $650,000 bonds for building a municipal water-works system. The election takes place July 9.

KNOXVILLE, TENN.—Reports from this city indicate that the proposed $750,000 bond issue for building new water-works plant or purchase of present plant will carry at the election July 9.

CINCINNATI, O.—The million-dollar contract for building the two settling reservoirs is stated to have been cancelled by the water-works commissioners, and acting Chief Engineer Benzenberg has been directed to prepare specifications for advertising for bids for a new contract for the completion of the work.

LORAIN, O.—City will vote July 12 on bond issue for improvement and extension of the water-works system. Some of the improvements contemplated are: Settling basin with capacity of 1,000,000 gallons, $10,000; filtration plant improvement and clear water well, $33,000; new cast iron mains for replacing wood pipe, $25,000; meters and extensions, $20,000.

NEWARK, O.—Plans and specifications for proposed municipal water-works have been presented to State Board of Health for their approval. John P. Lamb is Pres. Bd. Pub. Service.

GRAND RAPIDS, MICH.—City was to sell $90,000 of bonds July 2, proceeds of which were to be used for extension of municipal water system.

BLOOMINGTON, ILL.—O. W. Dunlap has been awarded the contract for water mains on State St. and East Washington St., at $14,161.

DANVILLE, ILL.—Chas. Cottingham received the contract for construction of the storm water sewer in the north end at $29,000.

HIGHLAND, ILL.—Highland Water Co. has been incorporated with $4,000 capital. Louis E. Kinne and J. J. Spindler are interested.

FREDERIC, WIS.—Village council has authorized the issue of $10,000 village bonds for a water-works system.

MENASHA, WIS.—Committee, Mayor August Henning, Member, has been appointed to secure plans and present matter of water-works to the citizens.

WAUPACO, WIS.—W. G. Kirchoffer, Consult. Engr., Madison, Wis., has been engaged by this city to make an investigation of the water problem with a view to securing a new source of supply. Mr. Kirchoffer's address was incorrectly given in our issue of June 23 as Baraboo, Wis.

ROCKWELL CITY, IA.—The contract for the installation of the city pumping plant has been let to the Smedley Steam Pump Works, of Dubuque, Ia., for $2,850.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CLARKFIELD, MINN.—J. E. Johnson, Village Recdr., is asking bids until July 15 for $5,000 of water-works bonds.

LIBBY, MONT.—A. B. Johnson, according to reports, is considering establishment of water-works here.

CLARK, S. DAK.—Council has been considering proposition submitted by representative of an Indiana firm for the construction of a municipal system of water-works at this place. The firm offers to construct a compressed air system for $18,000. This would include a well, pumping station, engine, twenty hydrants and the necessary mains, in addition to a gas lighting plant capable of furnishing 1,200 lights for public buildings and private residences, together with twenty street lights.

BARTLESVILLE, IND. T.—The contract for construction of the $50,000 water-works plant has been awarded to the Joplin Street Improvement & Construction Co. of Joplin, Mo.

CAMERON, MO.—Bids asked until July 23 for construction of a water-works system. E. L. Dileline, Mayor; John A. Clark, Cy. Clk. (Advertised, Engineering News.)

NASHVILLE, ARK.—The City Council is considering putting in a lighting and water plant.

EL PASO, TEX.—Suburb Water Co. has been incorporated with $10,000 capital. Wilhelm Griesser and Peyton F. Edwards are interested.

BRIGHTON, COLO.—Brighton Gardens Reservoir & Ditch Co. has been incorporated with $11,000 capital. Roswell Skell, Jr., and William G. Lovelace are interested.

DENVER, COLO.—Bids asked by L. G. Carpenter, State Engr., until July 23 for sinking an artesian well near Las Animas, Colo., to the depth of 1,500 ft.

PALISADES, COLO.—Grape Growers' Ditch Co. has been incorporated with $20,000 capital. S. J. Burris and L. W. Smith are interested.

SPOKANE, WASH.—Board Public Works has let contract for laying cast iron main in 47th Ave. North to Bell & Price for $47,096. Same concern was awarded contract for laying mains on Boylston Ave. North for $8,295.

MONROE, WASH.—Monroe Light & Water Co. has entered into agreement to furnish this city with water.

TACOMA, WASH.—Mayor Wright is outlining a plan for a new city water supply, by which a number of wells will be bored on the prairies south of Tacoma, from which the water will be pumped.

BRAWLEY, CAL.—Contract for town water-works is stated to have been let to A. C. Brown.

NAPA, CAL.—M. K. Miller, Engr., Oakland, Cal., has presented his report on the proposed new water system, with supply from Milliken canyon. The report states that the supply main from the distributing reservoir to the city will be about five miles long, and should have carrying capacity to supply at least 9,000 people. Summary of cost is as follows: Dam, $90,000; distributing reservoir, $10,000; upper supply main, $10,000; lower supply main, $54,600; electric light plant, $12,000; riparian rights, etc., $25,000; 8 miles of street mains, $40,000; reserve lands, $10,000. Other expenses bring total to $286,600.

RED BLUFF, CAL.—G. H. Flournow and B. P. Lukens have filed a claim with the County Recorder to 100,000 ins. of water flowing in Thomas Creek Canyon for irrigating and mining purposes.

TROY, IDAHO.—City water-works contemplated.

CREEMORE, ONT.—Ratepayers have voted $17,000 for water-works.

WINNIPEG, MAN.—The City Clerk has been instructed to call for tenders for the supply of 100 fire hydrants and 32,000 ft. of water pipe, 25,000 ft. of the pipe will be 6-in., 5,000 4-in., and 2,000 ft. 8-in. C. J. Brown is Cy. Clk.

SEWERAGE.

SOUTH HADLEY, FALLS, MASS.—Town at a recent special meeting voted the sum of $27,445 to be expended on sewers. The plans of John J. Kirkpatrick, of Holyoke, C. E., were adopted. It was voted to spend $10,000 this summer.

MARLBORO, MASS.—An order has been passed authorizing the Superintendent of Streets to make improvements and repairs on the city filter beds, according to plans drawn by J. F. Bigelow, Cy. Engr. Expense will not exceed $6,000.

WESTFIELD, MASS.—The contract for constructing section 7 of the surface sewerage was awarded to Seymour, Clark, Hills & Co., of Springfield, at $6,694.

WATERBURY, CONN.—Pasquale Contaldi, City, was awarded a contract for sewers to be laid in various streets at $5,563.

ITHACA, N. Y.—Bids are asked by the Sewer Commissioners until July 21 for furnishing material and constructing about 2,970 ft. of 6-in. sewer, 13 manholes. Also taking up about 2,700 ft. of 6-in. cast iron pipe in South Meadow and West Clinton Sts. and relaying same in Plain St. Henry L. Stewart, Supt. (Advertised, Engineering News.)

LOCKPORT, N. Y.—C. B. Whitmore, City, was awarded the contract, at $2,635, for a drain on William St. H. D. McNeil, Cy. Clk.

NORTH TONAWANDA, N. Y.—The Board of Public Works has instructed A. P. Smith, Cy. Engr., to prepare plans and estimates for the construction of sewers, under the last installment of $6,000, of the $30,000 appropriated at a special election five years ago. It will be expended in the Ironton district. Work on the sewers will begin this month.

NIAGARA FALLS, N. Y.—The Board of Public Works is considering the cost and details of a tunnel trunk sewer from the river to the corner of Cleveland Ave. and Tenth St. to relieve the congested condition of the sewer system at the north end of the city.

DELAWARE CITY, DEL.—Bids are asked by Louis F. Garrard, Jr., Q. M., Ft. Mott, N. J., until July 23 for installing storm water drainage system at Ft. Mott.

HAZLETON, PA.—A. Ruth has the contract for a 15-in. terra cotta sewer, at $6,107.40. B. E. Youngman, Cy. Engr.

MOUNT CARMEL, PA.—Council has voted $20,000 for a sewer system.

RIDLEY PARK, PA.—At a special election an ordinance providing for the borrowing of $25,000 was approved; $8,000 will be spent in extending the sewer system.

ROANOKE, VA.—Bids are asked until Aug. 2 for improving Campbell Ave. drain, a distance of 1,200 ft. of 8-10-ft. by 8 ft. deep. The work consists of removing street car tracks, brick pavement, earth and wooden cover from over the drain, etc. J. H. Wingate, Cy. Engr. (Advertised, Engineering News.)

TAMPA, FLA.—$500,000 bonds for public improvements will be issued. Various sewer work is under consideration.

BIRMINGHAM, ALA.—Julian Kendrick, Ch. Engr., Jefferson County Sanitary Comn., informs us that bids were received on June 30 for constructing the entire Village Creek trunk sanitary sewer, as advertised in Engineering News. Bids were as follows: Morey Engineering & Construction Co., St. Louis, $124,185; F. H. Beeman & Co., $114,600; Dunn & Lallande Bros., $94,125; Black & Laird, $90,727; J. E. Hollingsworth & Co., $82,028; Allison & Co., $78,117; Wright, Williams & Wadley, at $77,-465, were awarded the contract. The contract includes the construction of the entire sewer, from a point at East Lake to a point below Ensley, about 12 miles.

ASHLAND, KY.—Bids are asked until July 8, noon, for constructing a brick and tile sewer on 15th St. R. C. Richardson, Clk.; Chas. D. Burgess, Cy. Engr.

NEWPORT, KY.—Bids are asked by the Board of Improvements until July 16 for the construction of a trunk sewer and appurtenances in 12th St. J. B. Morlidge, Cy. Engr. (Advertised, Engineering News.)

ASHLAND, WIS.—Bids are asked by the Board of Public Works, A. D. McDonald, Chn., until July 11 for furnishing material and constructing an 8-in. sanitary sewer in portions of Tenth Ave. West and other streets.

CINCINNATI, O.—Bids are asked by Board of Public Service, George T. Holmes, Clk., until July 13 for constructing sewers in portions of Glenway and Carson Aves.

The County Commissioners have received a communication from the State Board of Health calling their attention to the pollution of Mill Creek. A trunk sewer will be run through Mill Creek Valley, along the stream from Glendale to the Ohio River. Cost, $500,000.

ALLIANCE, O.—Bids are asked until July 10 for building several sewers. C. E. Harsh, Clk. Bd. Pub. Service.

NEWARK, O.—The Walter P. Rice Engineering Co., 732 Society for Savings Building, Cleveland, will prepare plans for a sewer system and sewage purification. Previously reported.

XENIA, O.—J. E. Jones, Clk. Bd. Pub. Service, informs us that bids are asked until July 14 for about nine miles of 4, 6, 8, and 9-in. sewerage; average cut, 11 ft. Cost, $4,200. Geo. A. McKay is Des. Engr.

SOUTH BEND, IND.—Bids are asked until July 8 for various sewer and water connections on Ohio St. and Vistula Ave. W. A. McInerny, Bd. Pub. Works.

AURORA, ILL.—Board of Local Improvements has received bids for the construction of sewers in District No. 6, Lake and South Sts. H. D. Hallett was the lowest bidder, at $12,880.

BELLEVILLE, ILL.—The lowest bid received for the construction of sewers was from Sweeney & Coonan, 1739 Missouri Ave., East St. Louis, Ill., at $8,868.

OTTAWA, ILL.—Jas. J. Dougherty, City, was lowest bidder for Chester St. sewer system, at $24,748, we are informed by Chas. F. Wilson, Cy Engr.

HOLLAND, MICH.—Sewer system will be extended and water main service improved. Cost will be about $7,500 and $6,000, respectively.

FAIRVIEW, MICH.—Martin O. Whelan was awarded the contract for the construction of a sewer through the village, at $70,000, from the city limits to Cadieux road. Pumping station and tank will be erected also.

CEDAR RAPIDS, IA.—W. N. Dearborn, of Stone City, was awarded contract to build about 7,000 ft. of sewers, at $5,900.

DUBUQUE, IA.—Bids are asked until July 7, 7 p. m., for building storm water sewers. C. F. Arendt, Cy. Recorder.

MINNEOTA, MINN.—H. N. Dahl, City, was awarded the contract for a 3,000-ft. sewer, at $2,885. O. H. Stark, Engr.

McPHERSON, KAN.—Sewer system again agitated. Burns & McDonnell, Sanitary Engrs., Kansas City, have matter under consultation.

BUTTE, MONT.—W. E. Barker has been awarded the contract for sewers in East Butte, at $2,509.

OMAHA, NEB.—Contracts on district sewers have been awarded as follows: Zach Cuddlington, Clifton Hill District No. 292, at $11,214; J. F. Dailey, Omaha View District No. 293, $10,083; J. P. Connolly, extensions of Saddle Creek System No. 294, $5,177. Other smaller contracts were also awarded.

LAWTON, OKLA.—Joseph Severns, of Guthrie, at $32,-199, was awarded contract for sanitary sewer, and Taylor & Moore, of Houston, Tex., the partial storm sewer system, at $14,904.

MARSHALL, MO.—A. R. James, Cy. Clk., writes us that Dunnegan & Syles, Shenandoah, Ia., were awarded the contract for building 2½ miles of 6 to 15-in. sewerage, with average cut of 10 ft., at $7,189.

EUREKA SPRINGS, ARK.—H. H. Pendleton, Cy. Engr., Independence, Mo., writes that bids are asked by J. T. Pomeroy, Chn. Board of Water and Sewer Commissioners, until July 25 for constructing septic tank and aerator, and 1,000 ft. of 12-in. pipe sewer.

SEATTLE, WASH.—(See Streets and Roads.)

SEATTLE, WASH.—The Board of Public Works awarded contract for Pike St. sewer to Stirrat & Goetz, at $5,995; 47th St. sewer system, Bell & Price, at $47,097.

TACOMA, WASH.—F. A. Keasel has contract for construction of sewers in local improvement district No. 138. Contract price, $4,473.

EUGENE, ORE.—An election was to have been held on July 5 to vote bonds for $10,000 for sewer extensions.

SUMPTER, ORE.—Naylor & Norlin, of Lewiston, Idaho, were awarded contract to construct sewer system, at $11,-793. J. C. Davies will superintend construction.

ARCATA, CAL.—Bids are asked until July 12 by J. B. Tilley, Cy. Clk., for the construction of city sewer system.

BLACK DIAMOND, CAL.—O. P. H. Shelley, Cy. Engr., informs us that Council has passed a resolution of intention to sewer the town. City Engineer is preparing the necessary plans and specifications.

ST. HELENA, CAL.—Bids are asked by Otto Behrns, Town Clk., until July 12, for building a sewer.

LOS ANGELES, CAL.—City Council has received bids for the construction of the outfall sewer system. S. J. Edwards, of Pasadena, was lowest bidder, at $565,000.

SAN BERNARDINO, CAL.—Board of City Trustees has passed a resolution of intention for a sewer on Church St., together with flush tanks. E. A. Rasor, Cy. Engr.; Henry Allison, Cy. Clk.

BISBEE, ARIZ.—Surveyors of Ray Elledge have run lines for the sewer system his company will install if City Council grants him privilege asked for. Estimated cost of the system is $150,000.

GARBAGE DISPOSAL—STREET CLEANING

DULUTH, MINN.—Resolution was adopted by City Council authorizing the Mayor to appoint a commission to formulate a plan for the collection and disposal of ashes and garbage, and to report to council the cost of a plant.

KANSAS CITY, MO.—Bids asked by the Board of Health until July 10 for the garbage collected by the city.

STREETS AND ROADS.

GREENFIELD, MASS.—Bids asked by Water Commissioners until July 9 for constructing a town road in Leyden. Plans and specifications on file in office of Commissioners. C. J. Day, Chn.

PAWTUCKET, R. I.—City Council has adopted resolution to appropriate $30,000 for the paving of Lonsdale Ave. with Warren's bitulithic pavement.

CHESHIRE, CONN.—Bids asked by Board of Selectmen until July 15 for grading four sections of road. Plans and specifications on file in office of State Highway Commissioner at Hartford. Jacob D. Wade, Richard H. Morgan and Eri D. Woodbury, Selectmen.

DEEP RIVER, CONN.—Selectman Banning has received from Highway Commissioner McDonald the specifications for the new road to be built from Deacon Southworth's to the Essex line. The specifications will shortly be advertised and bids invited for the work. The stretch of road to be built is about 2,800 ft. in length and part will be macadam and part telford.

NEW YORK, N. Y.—Bids asked by Geo. Cromwell, Pres. Boro. of Richmond, First Natl. Bank Bldg., St. George, New Brighton, until July 19 for grading and macadamizing Lincoln and Castleton Aves.——Bids asked by Jos. Cassidy, Pres. Boro. of Queens, Long Island City until July 11 for grading, curbing and laying sidewalks on several streets.

NIAGARA FALLS, N. Y.—City Clerk has been directed by Board Public Works to advertise for bids for the paving of Cleveland Ave.

WATERTOWN, N. Y.—Bids asked by Board Public Works until July 13 for construction of 20,134 sq. yds. of pavement. Henry E. Baker, Cy. Engr. (Advertised, Engineering News.)

MILTON, PA.—Ordinances to curb and pave South Front and Filbert Sts. were passed by Council. W. C. Miller, Town Clk.

NORRISTOWN, PA.—J. R. Shanley was awarded contract by County Commissioners for constructing 2⅝ miles of macadamized roadway for $17,450.

BRADDOCK, PA.—The citizens of Braddock will vote August 2 on a proposal to issue $115,000 bonds, part to be used for street improvements and building of wharf.

PITTSBURG, PA.—Bids asked by County Commissioners until July 16 for improving Camp Meeting, Coultersville, Foster and Monroeville roads.

PITCAIRN, PA.—Councils will issue $25,000 bonds for the paving of six streets in borough. Property holders will pay $50,000 as their share of cost of improvements.

WASHINGTON, PA.—Following contracts were let for macadamizing: N. C. Hunter, Wheeling, W. Va., 7 miles; Hallam Construction Co., City, 5 miles, and Zelt Bros., City, 6 miles. The above was wrongly quoted in issue of June 16.

BALTIMORE, MD.—The Board Public Improvements approved the ordinance appropriating $5,700 for paving with asphalt blocks Park Terrace.

CUMBERLAND, MD.—City Engineer will receive bids for grading, curbing and paving with vitrified brick about 2,300 ft. of streets.

TOWSON, MD.—Specifications on file in office of Engineering News, 220 Broadway, New York, for the paving of First St. Bids asked until July 14.

WASHINGTON, D. C.—Following bids were received July 1 by Commissioners for paving streets and avenues with (a) asphalt and (b) vitrified block: Cranford Paving Co., (a) $31,400, (b) $3,330; Brennan Construction Co., (a) $32,600, (b) $4,200. C. B. Hunt, Engr. of Highways.

NORFOLK, VA.—The contract for paving Columbus Ave. has been given to the Southern Paving & Construction Co. by the Improvement Board of the Seventh Ward.

WINSTON, N. C.—Bids asked until July 25 for constructing approximately 15,000 sq. yds. of macadam streets. W. T. Brown, Chn. St. Com. (Advertised, Engineering News.)

NASHVILLE, TENN.—A new road is to be built in the 18th District, and new country will thereby be opened up for building purposes.

LOUISVILLE, KY.—Letterle Ave. for a distance of one and a quarter miles will be improved during the summer with brick and asphalt. Bids will soon be asked. John H. Weller is Chn. Bd. Pub. Wks.

LOUISVILLE, KY.—The Board of Works has opened bids on asphalt paving for three squares on Dumesnil and Douglas Court, the total value of the work being about $14,000. The contract will probably go to the American Standard Asphalt Co. at a price of $1.78 a sq. yd.

LOUISVILLE, KY.—The Board Public Works has decided to make extensive improvements of sidewalks in various parts of the city and will ask for bids on the work in a few days.

AKRON, O.—Bids asked by Board Public Service until July 14 for grading, curbing with stone and brick paving on College and West Fourth Sts. Plans and specifications on file in office of Board. Chas. H. Watters, Secy.

ALLIANCE, O.—Bids asked by Board Public Service until July 10 for grading and graveling Franklin Ave., 730 lin. ft. C. E. Harsh, Clk.

BOWLING GREEN, O.—Bids asked by B. C. Harding, Audr. Wood County, until July 25 for grading, macadamizing and constructing dirt road according to plans and specifications on file in office of Auditor.

COLUMBUS, O.—City intends issuing $60,000 bonds for the repair and improvement of streets.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

CLEVELAND, O.—Ordinances to grade, drain, [illegible] and pave several avenues were adopted by City Council. Peter Witt, Cy. Clk.

ELYRIA, O.—The Council has adopted a resolution to pave Middle Ave.

GREENVILLE, O.—Bids asked by Darke County Commissioners until July 30 for constructing two roads in Mississinawa Township.——Bids asked until July [illegible] for constructing a road in Allen Township. Gorman [illegible], County Surv.; E. Culbertson, County Audr.

NAPOLEON, O.—Bids asked by County Auditor until Aug. 2 for constructing a number of roads. Plans and specifications on file in office of Auditor.

TOLEDO, O.—Bids asked by Board Public Service until Aug. 1 for paving several streets with vitrified brick blocks. Harry S. Jones, Clk.

TOLEDO, O.—Russell & Jennison were awarded the contract for repaving Monroe St by the Board of Public Service. The repaving will be done with kreedone creosoted blocks, on the present concrete foundation, with Medina curb, at an approximate price of $131,114.

MOUNT VERNON, IND.—The Board County Commissioners of Posey County have awarded to Henry W. Eigenmann, of Rockport, and C. P. White, of Boonville, the contract for the construction of 38 miles of macadamized roads in Marrs and Black Townships. The work of grading for the rock will commence at once. Cost, $138,000.

MUNCIE, IND.—Bids asked by Common Council until July 11 for improving sidewalks on several streets according to plans and specifications on file in office of City Engineer. R. G. Hickok, Cy. Clk.

SULLIVAN, IND.—Bids asked by County Commissioners until July 11 for constructing 19,962 ft. free gravel roads. J. M. Lang, County Audr.

VINCENNES, IND.—Bids asked by Common Council until July 11 for grading and graveling Sixth St. Plans and specifications on file in office of Tom Robertson, Cy. Clk.

DETROIT, MICH.—Bids for the repaving of six streets were opened in the public works department. The repaving was to be done with cedar block on concrete, except Catherine St., for which three alternative bids were asked in (a) sheet asphalt, (b) kreodone block and (c) block brick. The lowest bids for the different jobs were: Catherine St., (a) Cleveland Trinidad Co., $5,166; (b) kreodone block, Republic Chemical & Creosoting Co., $5,394; (c) W. W. Hatch & Sons, $4,895. Cedar block on concrete. Hunt St., Michigan Contracting Co., $3,3[illegible]. Cleveland St., Michigan Contracting Co., $5,983. 31st St., Julius Porath, $9,895. Hancock St., Julius Porath, $11,-739. Beaufait St., Michigan Contracting Co., $1,280.

DES MOINES, IA.—Bids asked by Board Public Service until July 20 for curbing with Portland cement Park Lane, about 2,390 lin. ft. of curbing. W. W. Wise and J. W. Campbell, Brd. Pub. Wks.

HARTINGTON, NEB.—Bids asked by B. Ready, Cy. Clk., until July 15 for sinking, curbing and covering a well for the water-works. Plans and specifications on file with Clerk.

DILLON, MONT.—Bids asked by John S. Baker, Clk. Beaverhead County, until July 19 for building of a county road 3½ miles long.

GREAT FALLS, MONT.—Bids asked by Fred L. Hill, Clk. Cascade County, until July 11 for constructing a county road.

EAST ST. LOUIS, MO.—The Local Board Improvements has decided to construct 14 blocks of brick pavement. This work will include one block on South State St, three blocks on the Courthouse Square and ten blocks on North State St. extending to the northern limits of Woodlawn. The City Council will pass an ordinance authorizing this work done. Other paving on West Pearl St. is under consideration, but has been deferred by the Board until a later date.

ST. LOUIS, MO.—The Granite Bituminous Paving Co. has been awarded the contract at $147,191 for paving Easton and Laclede Aves.

LITTLE ROCK, ARK.—Bids asked by Board Improvement until July 11 for construction of an asphalt street on West Third St. Theo. Hartman, Engr. writes us that the district embraces 10 blocks, 3,600 ft. The work was not let as advertised in the local press, as only one proposal was received. (Advertised, Engineering News.)

PORT TOWNSEND, WASH.—Bids asked by Geo. H. Penrose, Q. M., U. S. A., until July 16 for constructing roads, board walks, etc., at Fort Flagler, Wash.

SEATTLE, WASH.—Bids asked until July 16 for paving the following streets with asphalt: Boylston, Terry and Boren Aves. Est. cost, $21,244. R. H. Thomson, Cy. Engr.

The following contracts have been awarded by the Board of Public Works: East Union St. and 11th Ave., grading and concrete sidewalks, $3,455, Sparger Concrete Co.; Bell St., concrete sidewalks, $2,222, Coast Concrete Co.; 34th Ave., concrete walks, $1,156, Coast Concrete Co.; Fifth Ave. West, sewer, $840, T. E. Dicken; Bellevue Ave. North, sewer, $1,183, Stirrat & Goetz.

SEATTLE, WASH.—Plans are being prepared by City Engineer for the paving of a business thoroughfare up Queen Anne Hill, and Highland Drive with sandstone blocks and a short stretch of asphalt. The work will be advertised so that a contract may be let about the middle of next month.

OAKLAND, CAL.—The plans and estimate of City Engineer Turner for the grading, curbing and macadamizing 14th Ave., at a cost of $30,190, was recommended by Council to be adopted.

SANTA MONICA, CAL.—The City Trustees will include $10,000 in proposed bond issue for improvements to Linda Vista Park, which will be terraced.

SALT LAKE CITY, UTAH.—Committee on streets of City Council has decided to pave East South Temple St. with asphalt this year.

SALT LAKE CITY, UTAH.—Bids asked by Board Public Works until July 22 for grading, curbing and paving South Temple St., consisting of about 34,000 cu. yds. excavation, 3,000 cu. yds. embankment, 13,500 ft, curbing, 26,300 sq. yds. of asphalt and cement pavement, etc. Bids will also be received for paving about 5,130 sq. yds. with asphalt on First St. E. A. Wall, Chn.; Geo. W. Snow, Cy. Engr. (Advertised, Engineering News.)

OTTAWA, ONT.—Barber Asphalt Co., of Toronto, was awarded contract for paving Albert St. with asphalt for $39,187.

TORONTO, ONT.—The City Engineer has recommended the following improvements: Asphalt pavement, Crawford St., $8,390; macadam roadway, Eastern Ave., $2,94[illegible]

MANUFACTURING PLANTS.

L..CHMONT, N. Y.—Otto Erhest writes us that he do. not expect to manufacture the safety third-rail de- vi.. which he recently invented, but sell the rights.

..WARK, N. J.—The Japhair Packing & Mfg. Co. has in..orated with $100,000 cap. stock to manufacture co.. and wool waste into packing and upholstering ma- te.. The incorporators are: C. F. Haverin, Jos. Egan a.. R. I. Tabasinsky.

..ENTON, N. J.—John Proctor, City, has been awarded the contract for a pottery plant for the Brian Pottery Co. B.., three stories and power equipment.

..EXANDRIA, PA.—The Federal Refractories Co. re- ..ly chartered in Harrisburg for the manufacture of .. brick and other clay products, has been organized, .. Pittsburg capital has become interested in the enter- p.. The company has elected J. H. Fuller, of Cleve- .. as president; John Phillips, of Alexandria, vice- president, and Wm. N. McKnight, of Pittsburg, secretary .. treasurer. The company has secured about 1,600 .. of land here. A large plant to be built will have a d..y capacity of 40,000 silica brick.

PHILADELPHIA, PA.—Steele & Sons have contracts to ..e alterations to the North Bros.' factory at American .. and Lehigh Ave.; for a $45,000 factory, 225 × 83 ft., ..be built in Allegheny Ave. for the Philadelphia Glazed K.. Co., and for a five-story printing house to be built at a cost of $17,000 at 1311-13 Sansom St.

PHILADELPHIA, PA.—The Standard Roller Bearing Co., 48th St. and Girard Ave., have invited bids for an addition to their machine shop. Brick and steel, one story high.

Cramp & Co., 1421 Filbert St., have been awarded the contract for an assembling shop at the Frankford Arsenal for the United States Government. Brick and steel, one story, 230 × 60 ft.

BALTIMORE, MD.—The C. M. Kemp Mfg. Co. has had plans prepared for a three-story brick building to be erected at its plant, 403 Oliver St. The plans were pre- pared by the Woodruff-McLaughlin Co. The building will be 20 × 77 ft.

BALTIMORE, MD.—Chas. J. Bonaparte, 216 St. Paul St., has awarded contract to John Cowan, 106 West Madi- son St., for construction of additional story on manufac- turing plant located at 219-23 North St., after plans and specifications by the Phoenix Construction Co., Arch., 233 North Calvert St. Four stories, 80 × 164 ft., brick with stone trimmings, slag roof, sanitary plumbing, steam heating system. Cost, $12,000.

CLARKSVILLE, VA.—Herbert Gordon, City, writes us that he will erect a building to manufacture light ma- chinery, and would like to have catalogues and price-lists from manufacturers of light gearings.

PETERSBURG, VA.—The Gwaltney & Bunkley Peanut Co., of Smithfield, and the Bain Peanut Co., of Wakefield, are to build a large peanut plant in Petersburg, on Bollingbrook St. Cost, $100,000.

BLUEFIELD, W. VA.—The Bluefield Pants and Overall Factory has been chartered to manufacture pants and overalls. Capital, $10,000. Incorporators: T. S. Johnson, J. T. Thornton, C. W. Thornton, Walter Thornton and A. V. Johnson, of Bluefield.

KINSTON, N. C.—The Kinston Lumber Co. has incor- porated with $50,000 cap. stock to acquire the property of the Gay Lumber Co. It is reported that $100,000 will be expended on improvements. James H. Pou, of Raleigh, N. C., and C. H. Gay, of Richmond, Va., are among the incorporators.

BENNETTSVILLE, S. C.—Thomas E. Mitchell is in- terested in the establishment of an ice factory here.

COLUMBIA, S. C.—The Carolina Kaolin Works have in- creased their capital stock from $200,000 to $250,000. M. Rich and W. B. Lowrance are the incorporators.

FORSYTH, GA.—The Trio Mfg. Co. will erect a new cotton mill.

WAYCROSS, GA.—South Atlantic Car & Mfg. Co. writes us that the only improvements to be made at this time are the installation of a new boiler, which has been pur- chased from J. S. Schofield's Sons Co., of Macon, Ga., and a few changes in machinery, which work will be done in their shops.

PENSACOLA, FLA.—Parodi & Co. will rebuild their lumber plant, burned recently at Bay Point at a loss of $100,000.

BIRMINGHAM, ALA.—James Wilkinson, it is reported, will erect a plant for the manufacture of the Wilkinson steam turbine which he has invented.

EUTAW, ALA.—J. J. Dew contemplates adding a plan- ing mill to his cotton gin and grist mill, recently estab- lished here.

GADSDEN, ALA.—The Southern Mfg. Co. will rebuild their sawmill, recently burned. Plant will have a capac- ity of 15,000 ft. per day. T. Pope is Engr. T. B. Gwin, Pres.

A. & J. Stove Co. will erect two additions, 40 × 80 ft., and 25 × 40 ft. Cost, $10,000.

TROY, ALA.—The planing mill, spoke and handle fac- tory owned by Henderson & Minchener was destroyed by fire. Loss, $100,000.

CRENSHAW, MISS.—Crenshaw Oil Mill Co. has in- creased its capital from $40,000 to $60,000.

TUPELO, MISS.—A fertilizer factory will be erected here at a cost of $110,000. John Clark is Pres.

NEW ORLEANS, LA.—The Southern States Alcohol Mfg. Co. has been granted a permit to erect a three- story brick building, composition roof, in Broadway. Est. cost, $7,000.

NEW ORLEANS, LA.—The Southern Moline Plow Co., of Moline, Ill., will establish a plow factory here.

POINTE A LA HACHE, LA.—The Crescent City Pack- ing Co., Ltd., has incorporated with $100,000 cap. stock to build a canning factory.

CHATTANOOGA, TENN.—The United States Leather Co. will expend $150,000 in rebuilding, overhauling and remodeling their plant.

CHATTANOOGA, TENN.—The Southern Steel Works will add a steel foundry to their plant at a cost of $30,000. A. W. Leighton is Pres.

Arrangements have been completed for the establishment of a mill in Chattanooga for knitting men's, women's and children's hosiery. The main building, to be two stories high, 80 × 100 ft., will be erected after plans and speci- fications by G. Q. Adams, of this city. John Heibeck has the contract. The company will be known as the Davis Hosiery Mills, and is capitalized at $100,000, with G. H. Miller, president. Stated that the Siegel-Cooper Co. and the H. B. Claflin Co., of New York, and others will be investors in the corporation, and will sell the product of the Davis plant in their stores.

The Richmond Spinning Co. has increased its capital stock from $250,000 to $350,000. It is said to be the com- pany's intention to expend this $100,000 additional capi- tal on the erection and equipment of a knitting mill to consume the product of the company's present yarn mill.

KNOXVILLE, TENN.—Hall-Donahoe Coffin Co. will erect a two-story brick addition to their plant, 80 × 40 ft., and install machinery for increasing capacity.

MEMPHIS, TENN.—Walk C. Jones, Arch., has let the contract for a carriage factory for P. Panageopoulos to E. M. Apperson. Brick, 57 × 125 ft., for $4,500.

SHELBYVILLE, TENN.—A. R. Nance and associates will erect a steam cotton gin here.

PADUCAH, KY.—Russel Gardner, Pres. Banner Buggy Co., St. Louis, Mo., will erect a wheel factory here. Cost, $50,000.

TOLEDO, O.—The Ames-Bonner Co. writes us that it will probably be a year before work on the new factory is started.

EVANSVILLE, IND.—The Evansville Bed Co. will at once erect a factory on Franklin St. Brick, 360 × 100 ft., equipped with modern machinery.

DETROIT, MICH.—Contracts for construction of the $250,000 automobile manufacturing plant of the Cadillac Automobile Co., Lem W. Bowen, Secy., 1242 Cass Ave.; Rogers & Macfarlane, 72 Moffat Bldg., Archs., have been awarded as follows: Mason, Frank H. Goddard, 1264 Brush St.; iron and steel work, Whitehead & Kales, Beecher Ave. and M. C. R. R.; roofing and sheet metal, Pudrith & Candler, 74-76 Brush St.; carpenter, John Whittaker & Co., 51 Church St.; painting and glazing, Brede & Schraeter, 152 Gratiot Ave.; metal window frames, Pudrith & Candler, 74-76 Brush St., and R. Hut- ton & Co., 112-116 Fort St. East; elevators, Otis Elevator Co., 515 Hammond Bldg.; fireproofing, National Fireproof- ing Co., Chicago, Ill.; automatic sprinklers, Manufac- tured Automatic Sprinkler Co., New York and Chicago; tanks, United States Engine & Machine Co., Batavia, Ill.

CHICAGO, ILL.—Frank B. Abbott, Arch., 225 Dearborn St., has let the carpenter work to A. J. C. Ledgerwood, 184 La Salle St., for a factory about to be built at Elgin, Ill., for the Elgin National Watch Co. It will be five stories, have pressed brick and terra cotta exterior, hard- wood finish, and cost $350,000. Mason contract was also let by Mr. Abbott to Carlson & Dunning, 92 La Salle St., for an addition to a cold storage building to be built at North Canal and Kinzie Sts., for the North American Cold Storage Co. It will be 15 stories, 60 × 65 ft., of fireproof construction, and cost $175,000.

CHICAGO, ILL.—Fire destroyed the Library Bureau Co.'s factory at Diversey Boulevard and Hermitage Ave. Loss, $130,000.

GALESBURG, ILL.—The Brown Cornplanter Works has been purchased by the Western Tool Co. The plant will be greatly enlarged, the capital increased from $50,000 to $200,000, and the company will manufacture everything in the iron and brass line, including small runabout auto- mobiles.

MILWAUKEE, WIS.—It is reported that Arthur L. Rich- ards, 307 Wells Bldg., is interested in the construction of a new plant to be built here.

It is stated that the American Show Print Co., Mont- gomery Bldg., Milwaukee, will erect a new building. Plans have not yet been completed.

DAVENPORT, IA.—Plans have been prepared by Clau- sen & Clausen, Archs., for the new plant for the Stern- berg Mfg. Co. The plans provide for three large brick buildings, including a work shop for the making of cigar molds, 130 × 40 ft.; a machine shop, 70 × 40 ft., and a boiler house, 36 × 45 ft. Work to commence soon.

KALISPELL, MONT.—The Boorman Lumber Co. will rebuild its mill recently destroyed by fire.

KANSAS CITY, MO.—Frank P. Gorman, Pres. Excelsior Powder Mfg. Co., has secured a site on which the com- pany will erect a large manufacturing plant consisting of 22 buildings. Cost, $75,000.

SEDALIA, MO.—The grading for the new $1,000,000 shops of the Missouri Pacific is completed and the work of laying the foundations will begin at once.

CAMDEN, ARK.—R. D. Newton, T. H. Reynolds and others will organize a company with $25,000 cap. stock to erect a plant for the manufacture of paint and soap from oil extracted from coal.

CLEBURNE, TEX.—Trinity & Brazos Valley Ry. Co., R. H. Baker, of Austin, Gen. Mgr., has awarded contract to E. J. Zimmerman for the erection of an engine house, 36 × 140 ft.; machine shop, 24 × 100 ft., and blacksmith shop, 21 × 40 ft.

WATONGA, OKLA.—The Hitchcock Mill & Elevator Co. will erect a large grain elevator to run in connection with its flouring mill. I. N. Lookebaugh is Pres.

MUSKOGEE, IND. T.—The Muskogee Bridge & Iron Co. is to be incorporated with a capital stock of $100,000. A plant is to be erected for the manufacture of iron to be used in the building of bridges, etc. The shops are to be put up at once. C. N. Haskell can inform.

PORTLAND, ORE.—A $500,000 packing plant is to be erected in Portland by the Independent Packing Co. A meeting will be held July 9, when preliminary arrange- ments will be made. The stock growers of Oregon, Idaho and Washington are to subscribe a fund of $2,000,000 to in- sure the immediate building of the plant.

TUCSON, ARIZ.—Fire destroyed ice plant of Tucson Ice & Cold Storage Co. Plant and building cost $40,000. Loss estimated at $20,000.

LOS ANGELES, CAL.—Julius Houser has been given a permit to build a packing plant on East 29th St., to consist of seven buildings. The character and cost of the build- ings will be as follows: Cold storage plant, $20,000; abattoir, $25,000; warehouse, $7,000; lard room, $8,000; smokehouse, $5,000; boiler and engine room, $5,000; stock- yard and stable, $10,000.

REDLANDS, CAL.—A packing house is soon to be erected by the Redlands Golden Orange Association, which will contain the latest improved machinery and equipment.

CALDWELL, IDAHO.—A beet sugar factory to cost $1,000,000 will probably be erected here if the requisite acreage is provided. It is expected to complete the build- ing next year, but only half the full complement of ma- chinery will be installed. The machinery that will be in- stalled will have a capacity of 600 tons daily, which will work 5,000 to 7,000 acres, and additional machinery will be put in as the business demands. A system of electric or steam railroads is contemplated for the transportation of beets to the factory.

REGINA, ASSA.—A by-law has been passed to grant a free site and exemption from taxation for ten years to the Western Mfg. Co., of Indian Head.

BRANTFORD, ONT.—The Verity Plow Co. announce that they will proceed immediately with the work of erect- ing a large addition to their factory. The capacity of the company will be doubled and there will be employment provided for 250 extra men.

MISCELLANEOUS CONTRACTS.

SURFACE DRAINAGE.—Melrose, Mass.—City will ex- pend $20,000 this year in surface drainage work.

DREDGING.—Portland, Me.—Bids are asked until Aug. 1 for dredging at Kennebec River, Me. S. W. Roessler, Maj. Engrs. (Advertised, Engineering News.)

DRAINAGE CANAL.—Evanston, Ill.—Council Commit- tee is stated to be considering construction of 6 ft. wide and 5 ft. deep drainage canal to skirt the city on the west.

DREDGE.—Council Bluffs, Ia.—City has let contract for complete dredging outfit to be used for cleaning Indian Creek to the Bellefontaine Foundry Co., Bellefontaine, O., for $4,800.

DITCH.—Williamsport, Ind.—Bids are asked until July 9 for constructing the Goodwin public ditch; about two miles of tile drain. Estimated cost, $5,400. W. H. Gem- mer, Engr.

ROCK.—New Orleans, La.—Bids are asked for furnish- ing about 8,000 tons of rock, delivered on barges on the Mississippi River until July 18. H. M. Adams, Lieut.- Col., Engr.

TELEPHONE IMPROVEMENTS.—Reno, Nev.—Sunset Telegraph & Telephone Co. proposes to expend between $20,000 and $30,000 within the next two months in im- provements in this city and Sparks.

DITCH WORK.—Belgrade, Minn.—Al. J. Peterson, Town Clk., Belgrade, has published notice that Town Boards will meet at Nicollet Township July 9 to receive bids for cleaning and repairing county ditch No. 11.

CEMENT.—Cincinnati, O.—Bids are asked until July 27 for furnishing about 900 bbls. American Portland cement at Frankfort or Worthville, Ky., for use at Lock No. 1, Kentucky River. Ernest H. Ruffner, Corps of Engrs.

DREDGING.—Washington, D. C.—Bids are asked by Bureau of Yards and Docks, Navy Dept., until July 30 for dredging and filling in 350,000 cu. yds., more or less, of material, navy yard, League Island. Mordecai T. Endi- cott, Ch.

FIRE ALARM SYSTEM.—Watertown, Wis.—Bids are asked until July 16 for installing a fire alarm system. The system comprises 28 fire alarm boxes, 2 gongs and indicators and one whistle blower. Arthur Mulberger, Cy. Atty.

COAL BUNKERS.—Washington, D. C.—Bids are asked by Bureau of Yards and Docks, Navy Dept., until July 16, 1904, for eight 50-ton steel and concrete coal bunkers in building No. 108, navy yard, Boston, Mass. Mordecai T. Endicott, Ch.

DREDGING.—New London, Conn.—Proposals for dredg- ing about 40,000 cu. yds. in Branford Harbor, Conn., were received June 22 by Lieut.-Col. Charles F. Powell, Corps of Engrs. T. A. Scott, New London, Conn., was lowest bidder, at $0.15.

REPAIRING DAM.—Philadelphia, Pa.—Following bids were received June 29 by Department Public Works for re- pairing Fairmount Dam, damaged by ice: William A. Mundy, $11,900; M. & J. B. McHugh, $9,876; David Peo- ples, $5,480; John L. Grim, $5,350.

DITCH.—Missoula, Mont.—Preliminary surveys have been made for route of 30-mile ditch, which is to supply water to the Three Mile Placer properties in Bitter Root Valley. It will carry 10,000 ins. of water. J. Seacombe, Minneapolis, Minn., is reported to be Engr.

CANAL.—Gridley, Cal.—Local reports quote M. N. Sheldon, Acting Secy. Butte County Canal Co., as stating that the company has money ready to go ahead with the work of building the canal, and will begin operations as soon as they can secure necessary contracts.

DREDGING.—Perth Amboy, N. J.—Bids are asked by Jos. Falcon, Contractor, Packer House, for dredging in Raritan River for trench 2,000 ft. long, 8 ft. wide and 6 ft. deep. There will be about 7,000 cu. yds. of dredging. (Advertised, Engineering News.)

DITCH WORK.—Warren, Minn.—A. B. Nelson, County Audr., is calling for bids until July 14 for purchase of $35,413 of bonds, to be issued for defraying and paying the expenses incurred or to be incurred in locating, estab- lishing and constructing Judicial Ditch No. 1 and branches thereto.

DAM.—Austin, Tex.—Citizens' Committee, A. P. Wool- dridge, Chn., has reported to council on proposition made by Dr. John N. Jacobs, Lansdale, Pa., for rebuilding the dam across the Colorado River, at this point, washed away in 1901. The cost of the work is estimated at $500,000.

GRAIN STORAGE TANKS.—Minneapolis, Minn.—Cong- don Construction Co. has secured the general contract to erect two steel grain storage tanks for the Van Dusen- Harrington Co. Each will be set on a heavy concrete and stone foundation, 45 ft. in diameter and 65 ft. high. Cost is $11,000.

TELEPHONE SYSTEM.—Riverside, Cal.—It is stated that William J. G. Lambert, who has applied to city trus- tees for a franchise for a telephone system for the Home Telephone Co., has acquired the franchise of H. C. Streeter, granted in 1895, and will begin at once install- ing a new system, expending $100,000.

DAM.—Lansing, Mich.—William G. Fargo, Jackson, Mich., Engr., informs us that E. J. Tobin & Co., Jack- son, were awarded contract for concrete dam to be built by A. A. and F. B. Platt, Lansing, Mich.; also to remodel wheel pits on Grand River. About 1,500 cu. yds. con- crete on rock foundation will be required.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SHORE PROTECTION.—Cleveland, O.—We are informed that bids were received on June 29 for building shore protection and jetties at Edgewater Park, as advertised for in Engineering News. Bid of the Standard Contracting Co., Cleveland, was accepted, at $71,430, for rip-rap. A bid of $78,570 was also submitted for using slag.

TUNNEL.—Santa Barbara, Cal.—The Superior Court has decided that the City may excavate a tunnel five miles long through Santa Ypez mountains for developing additional water supply for the municipal system. The new tunnel scheme will involve an expenditure of between $1,000,000 and $1,500,000. Contracts have been let.

DRAINAGE WORK.—East St. Louis, Ill.—E. G. Helm, C. E., has prepared plans for the complete drainage of the lakes and lowlands of the East Side, which will embrace a main sewer extending from the Baltimore & Ohio Road on the north to Cahokia, at the extreme south end of the city. The cost would be about $250,000.

EXCAVATION.—Washington, D. C.—Following bids were opened at office of Elliott Woods, Supt. of the Capitol, June 25, for excavating for new office building of the House of Representatives: New York Continental Jewell Filtration Co., $129,600; E. Saxton, $93,000; Cogan Bros. & Forschner, $89,950; McMullin & McDermott & Hoffman Engineering Co., $69,700; Daniel Sheehan, $69,459; Cranford Paving Co., $64,600; Ferguson Construction Co., $63,000; S. S. Cormody, $59,850; I. Pavarini, $59,500; Douglass Gilmore Co., $56,345; Brennan Construction Co., Washington, D. C., $44.760.

BREAKWATER.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts, Navy Dept., until Aug. 9 for the following work at the U. S. Naval Training Station, Newport, R. I.: Completion of breakwater, extension of sea wall south from present end of wall, approximate length 69 ft.; extension of sea wall north from present end of wall, approximate length 226 ft.; filling behind sea wall, approximately 2,844 cu. yds.; granite block pavement on pier, approximately 308 sq. yds.; moving a frame dwelling house and constructing cellar and necessary foundations for same at new site; and moving portions of present stables, constructing necessary foundations for same at new site, building new end wall, and providing concrete floor for one portion. H. T. B. Harris, Paymaster Gen., U. S. N.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts, Navy Dept., until July 19 to furnish at the navy yards, League Island, Pa., Washington, D. C., and the Naval Academy, Annapolis, Md., a quantity of copper wire, rubber covered wire, steel, conduits, side wall boxes, electrical supplies, motors, bolts and nuts, corn brooms, deck scrubbing brushes, hand scrub brushes, fire brick, fire clay, Portland cement, sand, broken stone, red brick, asphalt blocks, vitrified paving blocks, vitrified clay conduit, cotton twine, cotton twill, nails, screws, miscellaneous hardware and hand tools, scoop shovels, Renshaw ratchets, hand taps, iron pipe sets, railroad supplies, oak, pine, pine piles, ties, sheet brass, copper rod, ingot copper, Muntz metal, galvanized sheet steel, pig tin, slab zinc, steel castings, rails, steam hose, sheet gum packing, flax packing, lampblack, paraffine oil, brass and copper pipe, iron pipe, iron pipe fittings, valves, forged steel boilers, press copy books, pencils, pens, note paper, typewriter paper, carbon paper, toilet paper, wrapping paper, miscellaneous stationery, emery cloth, cotton waste, laundry soap, and installation of filing and record outfits. H. T. B. Harris, Paymaster Gen., U. S. N.

MINING NOTES.

MINING PLANT.—Seattle, Wash.—It is reported here that directors of the Molla Central Mining Co. contemplate installing a complete mining plant on Ogle Creek.

SMELTER.—Yreka, Cal.—Yreka "Journal" states that the Headwaters mine on North Fork of Humbug Creek is to be equipped with a $300,000 smelter. Jos. Johnston is Mgr.

HOISTING MACHINERY.—Bisbee, Ariz.—Local reports state that the Coppee Queen Co. will install hoisting and other machinery of larger capacity at the Sacramento shaft.

TUNNEL.—Darrington, Wash.—Capitalists are stated to have purchased Gold Mountain near this village, with the intention of spending about $700,000 in developing the gold deposits.

MINING COMPANY.—Denver, Colo.—Ella-Wedge Mining & Leasing Co. has been incorporated with $100,000 capital. Josiah Winchester, George Dodge and Smith McKay are interested.

MINING DEVELOPMENT.—Kingman, Ariz.—Management of the New Comstock mines, according to reports, will spend a considerable amount in developing the Sheeptrail mine. S. C. Bagg is Gen. Mgr.

REDUCTION PLANT, ETC.—Placerita, Ariz.—The Isabella Co., according to reports, will soon use the cyanide process in treatment of tailings. The Farwell Mining Co. is considering erection of a reduction plant at once.

REDUCTION PLANT.—Boise, Idaho.—It is stated that the Boise Smelting & Mining Co. will erect a plant for the reduction of ores at Boise. Jos. Bartlett and John Dillon representing Ohio capitalists will arrive in Boise in July to arrange details for the construction of the plant.

STAMP MILL, CYANIDE PLANT.—Prescott, Ariz.—Local reports state that T. M. Earnhart has leased the old model mill located in Peeples Valley and will add five new stamps and a 20-ton cyanide plant. W. W. Elliott, of firm of Elliott & Drescher, has commenced preparing plans for remodeling the old mill.

MEXICO.

RAILWAYS.

CHIHUAHUA.—Surveys are reported under way for a railroad to connect mines belonging to the French Rothschilds in southern Michoacan with the Urupan branch of the National R. R.

CITY OF MEXICO.—It is reported that surveys will be made soon, beginning near Los Reyes, for new line of railroad 580 kilometers long from this place to Apaculco, on the Mexican coast of the Pacific Ocean. Colonel James C. Wright, Denver, Colo., is stated to be interested in the project, which has been noted previously in these columns.

CORDOBA.—The date for the completion of the first 20 kilometers of the Cordoba & Huatusco Ry., state of Vera Cruz, under the concession held by Julio M. Limantour, has been extended to June 20, 1905. The balance of the line must be completed by June 20, 190[illegible]

NUEVO LEON.—The state of Nuevo Leon has granted exemption from all state and municipal taxes for 20 years on the capital of not less than $300,000 which the San Carlos Copper Co. may invest in the construction of a railroad from Nuevo Leon to Tamaulipas, provided construction commences not later than Oct. 10 and road is completed by April 11, 1906.

READERS' WANTS

This Department contains special requests, a[illegible] detailed items, from persons in the market [illegible] supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machin[illegible] and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furn[illegible] at once, free of cost, names and addresses of firms making the machinery or material desired, after which [illegible] item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be hono[illegible] absolutely. The information **in all cases will be sent to our advertisers** handling the mate[illegible] wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving s[illegible] requests with the understanding that it must not appear in the paper.

STEEL WATER TANK (60,000 gals.).—Gladbrook, Ia.—A. E. Steward would like to communicate with firms manufacturing the above.

HOISTING ENGINES.—Cleveland, O.—The F. D. Cummer & Son Co. write for the names and addresses of firms manufacturing hoisting engines.

BRICK AND ASPHALT PAVEMENT.—Harrisburg, Pa.—M. D. Pratt, Engr., 18 N. 3d St., writes for information regarding brick and asphalt paving.

Contract. Engrs., care of Penitentiary, write for the names of manufacturers of wood stave pipe.

MOVING STEEL STAND-PIPE (10 × 100 ft.).—Chicago, Ill.—E. A. Clark, 1132 Rookery Building, writes for the names of companies able to move the above.

WOOD STAVE PIPE.—Richmond, Va.—Alsop & Peirce,

MOVING SIDEWALKS.—Philadelphia, Pa.—B. Buckwater, 3453 Woodland Ave., writes that he would like to communicate with firms who construct moving sidewalks.

WELDING MACHINE.—New York, N. Y.—The Hennebique Const. Co., 1123 Broadway, would like to hear from parties manufacturing electric wire welding machines.

ALUM IN CONNECTION WITH MECHANICAL [illegible]TERS.—Joliet, Ill.—The Superior Chemical Co. [illegible] the names and addresses of firms manufacturing a[illegible] installing the above.

GASOLINE ENGINE (8 HP.).—Philadelphia, [illegible] A. F. Mins, C. E., writes us that he wishes to purch[illegible] 8-HP. gasoline engine of the vertical pattern for ru[illegible] a concrete mixer.

FUEL ECONOMIZERS, FANS WITH ENG[illegible] SMOKE STACKS.—Lowell, Mass.—Conners Bros. [illegible] Co., 16 Thorndike St., write us that they wish to [illegible]municate with manufacturers of the above.

NOZZLE FOR SPRAYING HOT ASPHALT.—H[illegible] Islands.—Geo. H. Baldwin, Hamaknapoko, Maui, w[illegible] us for names and addresses of manufacturers who [illegible] furnish a nozzle for spraying hot asphalt upon surfa[illegible]

FLOOD GATES.—East St. Louis, Ill.—E. G. Helm, [illegible] Engr., writes us that he wants information regar[illegible] flood gates, to prevent back water from entering small streams from larger ones. The case in hand is a do[illegible] arch opening of 30 ft. span each, and a depth of 25 [illegible] but where the difference in height of water of the two faces will probably not exceed 15 ft.

STREET AND ELECTRIC RAILWAYS.

JALISCO.—An electric railway is to be constructed from Pueblo Nuevo and Navidad del Puerto, on the Pacific Coast of the state of Jalisco. The line is to be built by the owners of the Pueblo Nuevo mines, who are European capitalists, but the material, equipment, etc., will be purchased in the United States.

VERA CRUZ.—The horse tramway lines in this city are, it is reported, to be changed to electric traction. The present lines aggregate about 11 miles in length, but are to be considerably extended. Contracts for the equipment of the new lines, estimated to amount to about $225,000, it is said, will be placed in the United States. Sir Weetman D. Pearson is Pres.

LIGHT AND POWER PLANTS.

ALLENDE, COAHUILA.—Enrique Guerra has obtained a concession for an electric light plant in this town. Electricity will be generated by water power.

CITY OF MEXICO.—A company has been organized to install an electric power plant on the Naranja River, in the state of Colima, and has also acquired the street railway system in the city of Colima, some six miles long, owned by John R. Knight, of 54 Old Broad St., London, E. C. The company intends to make other improvements and important extensions. Salvador Ugarte, of the engineering and contracting firm of Ugarte & Garcia, Guadalajara, has been in Colima arranging for construction of canals.

CITY OF MEXICO.—Mexican Light & Power Co., Ltd., has let a contract to the Ansonia Brass & Copper Co., Ansonia, Conn., for about 1,500 miles of copper wire, to be used on the 125-mile power transmission line which the company is constructing from its Necaxa plant to Mexico City and from there to El Oro mining region. The Necaxa plant will have an initial capacity of 45,000 HP. and an ultimate development of not less than 80,000 HP. The New York offices of Mexico Light & Power Co. are at 29 Broadway, and W. P. Plummer is the purchasing agent. It is expected that further substantial contracts will be placed soon.

COLOTLAN, JAL.—A company has been organized in Colotlán for the installation of an arc and incandescent lighting plant.

COLIMA.—Ugarte & Garcia, Guadalajara, are stated to have the contract for installing an electric light plant at Colima, at cost of $150,000.

VELARDENA, DURANGO.—The Power & Mining Co., 52 William St., New York, has contract for installing a power plant at Velardena for the Velardena Mining & Smelting Co.

WATER-WORKS.

CITY OF MEXICO.—Preparations are stated to be under way for the construction of a new plant to supply this city with water in sufficient quantities as demanded by the rapid growth of the population. It is proposed to tap a subterranean flow by a system of wells. Manuel Marroguin y Rivera is Ch. Engr.

CITY OF MEXICO.—Manuel Cuevas has concession for irrigation in the vicinity of the great lake of Chapala. The concession permits the use of water from Lake Chapala to irrigate 300,000 acres of land.

MANUFACTURING PLANTS.

CAMPECHE.—A company is being formed here for establishment of a factory for canning fruit, fish and oysters.

CHIHUAHUA.—State of Chihuahua has granted exemption from taxation to a chocolate factory to be established in city of Chihuahua, with capital not less than $15,000.

SAN NICHOLAS HIDALGO.—It is stated that a company with capital of $280,000 gold is to erect a plant for manufacture of cement at San Nicholas Hidalgo. W. Graham, Mexico City, is Pres.

MINING AND MISCELLANEOUS.

CHIHUAHUA.—Plans are being prepared for the new market to be built in the city of Chihuahua.

CITY OF MEXICO.—Charles Myers, Avino, state of Durango, will have charge of the construction of a reduction plant to be erected in state of Sonora, plans for which have been completed by Prof. Ottaker Hoffman, of Argentine, Kan.

CITY OF MEXICO.—The Altamina Mining Co. is preparing to do development work on property near Ahualulco, state of Jalisco. Dennis Ryan, St. Paul, Minn., is interested.

CITY OF MEXICO.—It is reported that Dr. A. T. Grove, Chicago, Ill., Secy. and Treas. of the American-Mexican Mining Developing Co., of Chicago, contemplates the expenditure of almost $1,000,000 in gold on properties at Velardena and Pedricena, state of Durango, near Torreon. The company will erect a $300,000 smelter.

DURANGO.—We are informed that there is a prospect that good sized smelter will be erected at this place by American promoters. A bank corporation has promised to underwrite $2,500,000 of stock, and a concession can be had from the state. The nearest smelter is at Torreon, but most of the ore from this place goes to Monterey. If the project is realized it would make numerous properties worth working that are now idle or nearly so. Chas. G. Codman, Durango, is interested.

JALISCO.—Lino Navarro has entered into an agreement with the Compañia Petrolera Mexicana to prospect for oil on the Rancho de las Candelas, bordering on Lake Chapala, which is owned by Antonio Amezcuna, of Sahuayo, state of Jalisco. Three rigs will be operated. The drilling operations will be in charge of Engineer Hoyt.

TEHUANTEPEC.—It is said that S. Pearson & Son will soon be in the market for additional machinery for their oil-drilling plant on and near the Isthmus of Tehuantepec.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

FOREIGN CONTRACTS—EXPORT NEWS.

WATER-WORKS.—Austria-Hungary.—Bids are asked until Aug. 1 for the construction of water-works in the town of Pardubitz. The "Burgermeisteramt, Pardubitz, Bohemia," may be addressed.

ELECTRIC LIGHTING MATERIAL.—Spain.—Bids are asked until July 22 for the lighting of the town of Airles by electricity. Bids should be addressed to the Alcaldia, Airles. A deposit of 25,000 pesetas (about $4,750) is required.

PORT IMPROVEMENTS.—Roumania.—Bids are asked until July 24 for the carrying out of improvements at the port of Turnu-Magurele. The estimated cost of the work is $77,700. Tenders should be addressed to the "Ministere des Travaux Publics, Bucharest."

REMODELING LOCK GATES.—Egypt.—Bids are asked until July 18 for the remodeling of the Mahmoudia lock gates in Alexandria. This work includes the supply and erection of two pairs of wrought-iron lock gates. Bids to be addressed to the Inspector of Irrigation, Third Circle, Alexandria.

CATHEDRAL PLANS.—Roumania.—The Roumanian Minister of Public Worship and Education invites plans for the construction of a cathedral at Galatz. Prizes of $780, $530 and $300, approximately, are offered for the three best designs. The competition closes on Aug. 25. Communications should be addressed to the "Ministere des Cultes et de l'Instruction Publique," Bucharest.

ELECTRIC RAILWAY.—Berlin, Germany.—Siemens & Halske and the General Electric Co. have elaborated schemes for the construction of a high-speed electric railway from Berlin to Hamburg, a distance or 180 miles. Siemens & Halske offer to construct the railway at a cost of £3,500,000 for a single line, and £5,200,000 for a double line, guaranteeing a speed of 100 miles an hour. The General Electric Co. is willing to guarantee a speed of 125 miles an hour for the same fares, but estimates that the cost of construction would be higher. It is probable that one of these schemes will be adopted, as the emperor is ambitious that Germany should be the pioneer in high-speed electric railways.

ELECTRIC RAILWAY, POWER PLANT.—Brazil.—The Rio de Janeiro Tramway, Light & Power Co., Ltd., recently chartered in Canada with $50,000,000 capital to operate tramways and lighting companies in Rio de Janeiro, has bought at Sapucaia, 75 miles from that city, a waterfall which is expected to develop about 100,000 HP. Surveys and preparatory work are now under way at that point, and the electricity which is developed will be carried to Rio de Janeiro, where it will be sold to the tramway, lighting and milling interests. Among those interested are Sir William Van Horne, Montreal, Que., and William McKenzie, Toronto, Ont. F. S. Pearson, 29 Broadway, New York, will act as Consulting Engineer.

TELEPHONE LINES AND ELECTRIC TRAMWAYS.—Spain.—New telephone lines are to be constructed from Madrid to the French border; from Madrid to Galicia via Santander; from Madrid to Malaga and Cadiz; from Vich to Manlleu; from San Vincent de Torello to Ripoll; and from Elche and Noveldo to Pinoso and Crevillente. For particulars apply to Direccion general de Telegrafos, Madrid, Spain. Concessions have been granted for the building of the following electric lines of tramways: From San Cristobal de la Laguna to Tacaronto. Apply to Societe Anonyme des Tramways electriques de Teneriffe,

Ca[illegible] Islands, for particulars. A concession has been gra[illegible] also for electric line of tramways from Sevilla to Sant[illegible]nce, Spain; and a line between Milan-Turin-Cas-tegg[illegible] Engineer Gredazzi, Milan, Italy, can give in-form[illegible]n.

E[illegible]TRIC RAILWAYS.—England.—H. S. Callette, Se[illegible] has written us verifying the announcement that J. G. [illegible]te & Co., Incorporated, 43-49 Exchange Pl., New Yo[illegible] has secured a contract from the Urban District Cou[illegible] of Dartford, for the construction and leasing of 8½ [illegible]es of electric traction system. The Council will, un[illegible] the agreement, seek parliamentary powers for ex-te[illegible] the system to Swanscombe—a town about five mi[illegible] distant. J. G. White & Co. will also construct and [illegible]e this line. The same concern is now executing ele[illegible] tramway construction and equipment work in and aro[illegible] London, for the London Coucil which will etail an [illegible]enditure of fully $3,000,000. A large portion of the ma[illegible]al, equipment, etc., will be of American manufac-tur[illegible]t is said. J. G. White & Co., Limited, 22A College Hil[illegible] London, E. C., represents the American Co. in En[illegible]and.

CONTRACT PRICES.

[W[illegible]re (*) precedes items under Contract Prices the work was advertised in Engineering News.]

[illegible]MENT SIDEWALKS.—Takoma Park, D. C.—Following bids were received by the Mayor and Council June 20 [illegible] laying about 10,000 sq. yds. of cement sidewalks. Guarantee is for five years. Contract awarded to Brennan Construction Co.; Ben. G. Davis, Town Clk.; (1) bid for sidewalks, including 1 ft. cut or fill, with five-year guarantee and bond; (2) same as (1) save that 10% of cost of work is withheld for five years; (3) extra grading, including haul; (4) cement steps; (5) extra concrete:

Boston, Mass.; (3) C. A. Dodge & Co., Boston, Mass.; (4) Joseph Ross & Sons, Boston, Mass.; (5) Wm. H. Ward, Lowell, Mass.; (6) T. H. Gill & Co., Boston, Mass.; (7) Woodbury & Leighton Co., Boston, Mass.; (8) L. D. Villcutt & Son, Boston, Mass.:

*BRICK PAVING.—Lapeer, Mich.—Following bids were received June 18 for constructing about 14,000 sq. yds. brick pavement on Nepessing St., and Franklin Ave. Guarantee is for 5 years. Streets are to have 4-in. concrete foundation nad Medina curb. Contract awarded to Lynch & Cotherin; H. L. Strong, Cy. Clk.; (1) bid for excavating, (2) for paving: Lynch & Cotherin, Flint, Mich., (1) 20 cts. a cu. yd., (2) $1.51 a sq. yd.; C. H. Kornmier, Port Huron, Mich., (1) 23 cts., (2) $1.71; Geo. H. Kneal., Lansing, Mich., (1) 35 cts., (2) $1.61; Ryan & McLauflin, Bay City, Mich., (1) 35 cts., (2) $1.85; Gerritt S. Ge mans, Port Huron, Mich., (1) 20 cts., (2) $1.68; John C. Davies, Saginaw, Mich., (1) 38 cts., (2) $1.99; J. Murphy, Port Huron, Mich., (1) 20 cts., (2) 1.63; Walter Hatch & Sons, Detroit, Mich., (1) 25 cts., (2) $1.75; Albert Prangs, Grand Rapids, Mich., (1) 24 cts., (2) $1.77; J. W. Collins, Flint, Mich., (1) 30 cts., (2) $1.55.

Bids received at Boston, Mass., June 21, 1904, for Constructing Masonry Arch Bridge at West Boylston, Mass.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Portland cement concrete masonry..	800 cu. yds..	$5.75	$6.50	$5.79	$5.90	$6.00	$5.90	$9.00	$9.20
Ashlar masonry, class A (walls and face stones of arch)...............	265 cu. yds..	16.00	18.00	28.49	29.40	29.00	29.70	25.00	27.00
Ashlar masonry, class B (arch stones in body of arch)................	220 cu. yds..	16.00	19.00	18.49	18.50	19.00	22.00	22.00	25.00
Face dressing of fine pointed work..	1,020 sq. ft....	.40	.50	.48	.49	.47	.50	.60	.63
Face dressing of rough pointed work	400 sq. ft....	.30	.40	.38	.39	.33	.40	.50	.51
Totals..............................		$12,888	$14,820	$16,891	$17,237	$17,276	$18,100	$19,477	$20,862

WATER PIPE, GATE VALVES, HYDRANTS, SEWER PIPE.—Moose Jaw, Assa.—Bids were opened here May 14 for constructing city water-works and electric light plant. W. A. Munns, Secy.-Treas.; W. T. Ashbridge, Res. Engr. The contract for furnishing 482 tons c. i. water pipe and 15 tons c. i. specials f. o. b. Moose Jaw, was let to Canada Foundry Co., Toronto, Ont., at $44.20 and $68.20 per ton, respectively. This company was also awarded contract for gate valves and hydrants at following prices: Gate valves—one 12-in., $38.95; one 10-in., $30; seven 8-in., $18.90; 28 6-in., $12.65; ten 4-in., $8.80; 51 hydrants (8 ft. frost case), $39; three street sprinkling cranes, $43; 37 valve boxes, $8.75. The contract for furnishing sewer pipe and junctions f. o. b. cars Moose Jaw, was let to the Illinois Mfg. Co., Macomb, Ill., at the following itemized bid: Straight tile, 1-12 of diameter thick, 2½ ft. lengths—18-in., 1,730 ft., $1,23½; 15-in., 6,050 ft., $0.85; 12-in., 4,000 ft., $0.49; 10-in., 7,400 ft., $0.38¼; 8-in., 12,600 ft., $0.26; 6-in., 1,000 ft., $0.16½; 4-in., 1,000 ft., $0.10½. 4-in. and 6-in. junctions off—18-in. pipe, 10, $4.95; 15-in. pipe, 100, $3.40; 12-in. pipe, 50, $1.96; 10-in pipe, 120, $1.53; 8-in. pipe, 200, $1.04; 6-in. pipe, 50, $0.64; 4-in. pipe, 20, $0.42. The other contracts were let as follows: Laying water and sewer mains, setting hydrants, etc., Dobson, Jackson & Fry, Winnipeg, Man., $39,321; covered reservoirs, W. J. Lawrence, Moose Jaw, Assa, $4,950; pumping engine, Builders Iron Works, Providence, R. I., engine, boilers, Robb Eng. Co., 100 KW., generator, exciter, station transformers, switchboard, etc., for entire electric system, Canadian Bullock Electric Mfg. Co., Montreal, Que.

BRICK SEWER.—Milwaukee, Wis.—Contract for building 1,000 ft. of brick sewer in Keefe Ave. and Cambridge Ave., has been let to Charles Forrestal, at $10.29 per ft.

BLOCK PAVING.—Holyoke, Mass.—Board Public Works has let contract for about 4,000 sq. yds. of block paving on Main St. to the U. S. Wood Preserving Co., at $2,60 per sq. yd.

Bids received at Takoma Park, D. C., June 20, 1904, for Laying Cement Sidewalks.

Bidders.	(1)	(2)	(3)	(4)	(5)
Kosser & Castoe Co., Bellaire, O..........................	$1.12½	$1.14	$0.44	$0.90	$7.25
Brennan Construction Co., Washington, D. C........	1.17	1.24	.35	.50	5.50
Warren Construction Co., Washington, D. C.........	1.21½	....	.50	.75	5.50
Cranford Paving Co., Washington, D. C...............	1.29	1.35	.40	.55	5.00
J. B. Stubbs, Kensington, Md..............................	1.33	1.33	.45	.75	6.50
Fred. Drew, Washington, D. C.............................	1.46	1.48	.35	.60	6.00
Lyons Bros., Brookland, D. C.............................	1.59	1.66	.75	1.25	8.00

ENGINEERING MATERIAL PRICES.

These prices will appear in the first or second issue of each month.

TRACK FASTENINGS—

Chicago—at mill—Steel splice or angle bars, 1.35 to 1.50 cts.; spikes, 1.65 to 1.70 cts.; bolts, square nuts, 2.20 to 2.25 cts.; hexagon nuts, 2.30 to 2.40 cts.

RAILS, STEEL—

New York—at mill—New, standard sections, $28; old iron, f. o. b., $14 to $14.50; old steel, f. o. b., long lengths, $12 to $12.50; old steel, short pieces, $10 to $10.50; relayers, $16 to $17.

Chicago—at mills—New, $28, standard sections; light sections, $22.50 to $25; old iron, $14.50 to $15; old steel, 4 ft. and over, $10.50 to $11; old steel, less than 4 ft., $9.50 to $10; heavy relayers, $21 to $22; heavy relayers, for side tracks, $18 to $20.

Pittsburg—at mill—Standard sections, $28.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams, channels, angles and zees, 1.74½ to 2 cts.; tees, 1.79½ to 2 cts.; bulb angles and deck beams, 1.84½ to 2.05 cts.

Chicago—I-Beams and channels up to and including 15-in. and angles 3-in. in one leg and larger, 1.76½ cts.; tees, $1 per ton extra. Store prices, angles, beams, channels and zees, 2 to 2.10 cts.; tees, 2.05 to 2.15 cts., random lengths or cut to 5 ft. and over.

Pittsburg—Beams, channels and zees, 15-in., 1.60 cts.; over 15-in., 1.70 cts.; angles, 3 × 2 up to 6 × 6, 1.60 cts.; zees, 1.60 cts.; tees, 1.60 cts.

SEA WALL AND GRADING.—Lynn, Mass.—Following bids were received June 16 for building sea wall and grading at Lynn Shore Reservation; contract awarded to Coleman Bros.; J. A. Rablin, Acting Engr.; (1) E. R. Taylor & Co., Boston, Mass.; (2) Metropolitan Contracting Co., Boston; (3) M. McDonough, Swampscott, Mass.; (4) H. P. Hawn and H. S. Brock, Boston; (5) T. Stuart Son Co., Newton, Mass.; (6) E. W. Everson & Co., Boston; (7) Thos. E. Ruggles, Boston; (8) John Sheehan & Son, Lynn, Mass.; (9) C. E. Trumbull Co., Boston; (10) David J. Sheehan, Lynn; (11) Pitman & Brown, Salem, Mass.; (12) James D. Kelly, Dorchester, Mass.; (13) T. H. Gill & Co., Boston; (14) Patrick McGovern, Boston; (15) Smith & Robinson, New York, N. Y.; (16) Coleman Bros., Everett, Mass.:

BIDS RECEIVED AT LYNN, MASS., JUNE 16, 1904, FOR BUILDING SEA WALL AND GRADING.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Earth grading..............	22,000 cu. yds.	$0.60	$1.00	$0.55	$0.40	$0.45	$0.33⅓	$0.35	$0.40	$0.43	$0.34	$0.34	$0.28	$0.26	$0.27	$0.30	$0.20
Filling material...........	1,000 "	.60	.50	.75	.50	.45	.30	.40	.41	.60	.40	.42	.37	.01	.40	.40	.50
8-in. vit. pipe..............	3,400 lin. ft..	.32	.25	.50	.35	.35	.30	.30	.32	.60	.30	.29	.23	.25	.25	.30	.30
10-in. "	1,150 "	.465	.38	.60	.45	.40	.50	.42	.51	.45	.48	.42	.30	.40	.35	.40	.40
12-in. "	200 "	.75	.48	1.00	.60	.55	.65	.55	.60	.60	.55	.59	.38	.48	.50	.55	.50
15-in. "	20 "	1.60	.62	2.00	.85	.80	.80	.75	.75	.90	.80	.95	.50	.75	.75	.80	.75
Stone drain pipe outlets....	7.........	60.00	15.00	50.00	20.00	20.00	20.00	25.00	15.00	25.00	15.00	13.20	10.00	24.00	6.00	25.00	5.00
Concrete masonry..........	6,000 cu. yds.	9.30	7.35	6.50	6.00	5.75	6.00	5.60	5.90	5.39	5.50	4.95	4.85	5.39	4.50	3.80	4.50
Face pointed................	25,000 sq. ft...	.30	.03	.05	.20	.05	.10	.30	.08	.10	.04	.15	.10	.02	.15	.135	.05
Concrete coping............	3,250 lin. ft..	4.70	3.85	4.00	3.50	3.50	3.00	4.25	2.50	2.25	2.40	2.40	2.19	1 65	2.00	2.50	2.20
Concrete steps.............	1,000 "	2.25	1.50	1.00	1.00	1.10	1.00	.35	1.25	.70	1.10	.65	.63	.55	.40	.50	.50
Timber groynes............	400 "	2.80	2.00	4.00	2.00	1.35	2.00	2.00	1.10	.80	.99	1.20	1.35	1.75	2.00	1.65	2.50
Spruce piles................	150.........	4.40	3.00	4.00	5.00	4.50	6.00	4.00	5.00	5.00	4.50	4.00	3.00	4.50	3.00	3.75	3.00
Totals.........................		$98,630	$84,113	$72 280	$66,209	$61,706	$60,464	$59,565	$59,089	$56,853	$53,654	$52,578	$48,150	$47,446	$46,649	$44,803	$43,880

*LEVEE WORK.—Greenville, Miss.—Bids were received June 21 by the Mississippi Levee Commissioners, C. H. West, Ch. Engr., for constructing about 1,044,000 cu. yds. of levee; contract was awarded to John Scott Sons, St. Louis, Mo. In addition to bids given below Bush & O'Grady bid 13 cts. per cu. yd. on Sec. 2 of new Valewood levee and R. M. Edwards bid 15½ cts. per cu. yd. on Sec. 3 of same levee. On Sections 1 and 2 of new Shiloh levee Welsh Bros. bid 13 74-100 cts. and Jas. Austin & Co. bid 14 70-100 cts. The other bids received were as follows:

CASTINGS.—Boston, Mass.—Bids were received by the City Water Department June 30 for furnishing 420,000 lbs. iron castings and 23,000 lbs. composition castings. Of the i on castings there were two items, (1) 370,000 lbs., and (2) 50,000 lbs. Of the composition castings, (1) 6,000 lbs.; (2) 15,000 lbs; (3) 2,000 lbs. The bids were as follows: Iron castings—Sessions Foundry Co., Bristol, Conn., 2 4-10 cts. and 1 6-10 cts.; Foxboro Foundry Co., Foxboro, Mass., 2 85-100 cts., 2 45-100 cts. Composition—J. H. McCafferty & Co., 18 6-10 cts. for Nos. 1 and 2, and 14 cts. for No. 3; American Steam Gage & Valve Manufacturing Co., 20½ cts. for Nos. 1 and 2, and 15 cts. for No. 3; Union Brass Foundry Co. Lowell, Mass., 19½ cts. No. 1, 19 cts. No. 2, 14½ cts. No. 3.

Bids received at Greenville, Miss., June 21, 1904, for Constructing Levee.

Bidders.	New Valewood Levee. Sec. 1. 162,000 cu. yds.	Sec. 2. 195,000 cu. yds.	Sec. 3. 188,000 cu. yds.	Sec. 4. 211,000 cu. yds.	New Shiloh Levee Sec. 1. 144,000 cu. yds.	Sec. 2. 144,000 cu. yds.
Lewis, Jennings & McCadden........	$0.14⅜	$0.14⅜	$0.14⅜	$0.14⅜	$0.142	$0.142
M. J. Roach & Co.*.....................	.165	.145	.14	.17	.135	.135
Wright, Williams & Wadley††.........	.16	.137	.137	.17	.137	.137
Hutton Co. & J. M. Sullivan†††........	.1395	.1395	1395	.1395	.13	.13
Pat Deely..................................	......	.155	.16	......	.148	.1445
H. Morgan & Co.†.........................	.1398	.1398	.1398	.1398	.1398	.1398
W. M. Bates & Co........................	.1593	.1593	.1593	.1593	.1593	,1593
Shippey, Outzen & Co...................	.15½	.15½	.15½	.15½	.14½	.14½
Connelly & Gibson ††††..................	......	.1575	.1590	......	.1540	.1440
J. S. McTighe & Co.......................	.15	.14½	.14¼	.17	.1375	.1375
Wells, Johnston, Burk & Co.†	.1473	.1473	.1473	.1473	......	......
J. R. Bobbitt................................	.174	.162	.15⅞	.194	.1625	.154
Donnavan & Daily & Mullen †.........	.1449	.1449	.1449	.1449	.13⅞	.13⅞
J. J. Jeffries & Son †††††..............	.17	.16	.16½	.18⅓	.16	.16
John Scott Sons †.........................	.1340	.1340	.1340	.1340	.1340	.1340

* All work at .1393 cts. †† Either Secs. 2 and 3 or all of Valewood levee; all or none of Shiloh levee.
† All work or none. ††† One levee only. †††† One section of either levee. ††††† Muck ditch at .16 cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, carload lots, tank, 1.84½ to 2 cts.; flange, 1.94 to 2.10 cts.; marine, 1.94½ to 2.50 cts.

Chicago—Universal mill plate, 1.76½ to 1.81½ cts.; 3-16-in. tank, 1.86½ cts.; Nos. 7 and 8, 1.91½ to 2.01½ cts.; No. 10, 1.76½ cts.; No. 12, 1.86½ cts.; flange, 1.86½ cts.; marine, 1.96½ cts.

Pittsburg—Tank, ¼-in. thick and up to 100 ins. wide, 1.60 cts., at mill, Pittsburg; flange and boiler steel, 1.70 cts.; marine and ordinary firebox, 1.80 cts., at mill, Pittsburg; locomotive firebox, 2.10 to 3 cts.

MERCHANT STEEL—

Chicago—Machinery, smooth finished, 1.76½ to 1.81½ cts.; tire, smooth finished, 1.71½ to 1.76½ cts.; open hearth spring, 2 to 2.25 cts.; crucible tool, 6½ to 8 cts.; special tool, 13 cts. and up

Pittsburg—Plow steel, 6-in. and under, 1.35 cts. for Bessemer and 1.45 cts. for open hearth; plow slabs, ¾-in. and heavier, 1.60 cts.; tire, 1.55 to 1.60 cts.; crucible tool steel, ordinary grades, 6 to 8 cts.

WATER METERS.—Camden, N. J.—Following bids were received by City Council Water Committee June 14 for furnishing water meters; contract awarded Hersey Water Meter Co.; (1) Neptune Meter Co., (2) Hersey Water Meter Co., (3) Standard Water Meter Co., (4) H. E. Worthington Co.:

Items.	(1)	(2)	(3)	(4)
⅝-in. meter....	$8.00	$8.00	$7.00	$6.30
¾ "	12.00	12.00	10.00	9.60
1 "	16.00	16.00	14.00	13.80
1½ "	35.00	30.00	28.00	25.50
2 "	55.00	50.00	35.00	35.00
3 "	75.00	90.00	65.00	72.00
4 "	200.00	175.00	120.00	200.00
6 "	450 00	375.00	250.00	......

MASONRY ARCH BRIDGE.—Boston, Mass.—The following bids were received June 21 for constructing masonry arch bridge at West Boylston for the Metropolitan Water-Works; contract awarded to F. A. McCauliff; (1) F. A. McCauliff, Fitchburg, Mass.; (2) Angus MacDonald,

BLOCK PAVING.—Washington, D.C.—Cranford Paving Co., Washington, has been awarded contract for paving with vitrified block on a 6-in. hydraulic base of the space north of the Center Market, between 7th and 9th Sts., N. W. The District furnishes the block and the price bid, $1 33, per sq. yd., includes excavation. There will be about 2,700 sq. yds. paving, and 700 cu. yds. excavation.

*MACADAM.—Cranford, N. J.—Following bids were received June 24 by the Township Committee for constructing (1) about 4,523 cu. yds. macadam, (2) 1,891 cu. yds. excavation, and (3) resetting six manhole heads: W. H. Weldon, Rahway, N. J., (1) 59 cts., (2) 32 cts., (3) $3.

CEMENT SIDEWALKS.—Newport, Ind.—City council has let contract for putting in about 9,000 ft. of cement street and alley crossings to P. W. Schoonover, Springfield, Ill., at 10⅞ cts. per sq. ft.

IRON—

Pig Iron:

New York—at tidewater—No. 1 Foundry, $14.75 to $15; No. 2 Foundry, $13.75 to $14.25; Gray Forge, $12.75 to $13; Tennessee and Alabama brands, $12.75 to $13.25, for No. 2 Foundry, and $12.25 to $12.75 for No. 3 Foundry.

Chicago—f. o. b. Chicago—Lake Superior Charcoal, $14.50 to $15.50; Northern Coke Foundry No. 1, $13.75 to $14; No. 2, $13.25 to $13.50; No. 3, $13 to $13.25; Northern Scotch, No. 1, $14 to $14.25; Ohio Strong Softeners, No. 1, $15.05 to $15.30; No. 2, $14.55 to $14.80; Southern Silvery, according to Silicon, $14.15 to $15.15; Southern Coke, No. 1, $13.15 to $13.40; No. 2, $12.65 to $13.15; No. 3, $12.40 to $12.65; No. 4, $11.65 to $12.15; No. 1, soft, $13.15 to $13.40; No. 2 soft, $12.65 to $13.15; Southern Gray Forge, $11.65 to $11.90; Southern Mottled and White, $11.65 to $11.90; Malleable Bessemer, $13.75 to $14; Standard Bessemer, $14.80 to $15.05; Jackson County and Kentucky Silvery, 6 to 10% silicon, $16.30 to $18.30; Alabama Basic, $13.15; Virginia Basic, $13.85 to $14.10.

Pittsburg—Bessemer at Valley, $11.60; at Pittsburg, $12.50; Northern Foundry, No. 2, $11.75 at Valley; at Pittsburg, $12.50; Northern Forge, $12.10 to $12.15, Pittsburg.

Bars:

New York—Bar iron, refined, 1.44 to 1.44½ cts.; soft steel, 1.49½ cts.

Cast-Iron Pipe:

New York—Carload lots, gross tons, 6 to 10 ins., at tidewater, $28; 12 ins. and up, $27.

Chicago—4-in. water pipe, $25.50; 6-in. and heavier, $24.50, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $25 per ton at New York; Trinidad refined, $25 per ton; Venezuela asphalt, $25 per ton.

Bitumen:

"B," 3½ cts.; "A," 5 cts.

Cement:

"Dragon" Portland, $1.60 to $1.70; Portland, Am., 400 lbs. bbl., $1.25 to $1.50; Foreign, $1.75 to $2.25; "Rosedale," 300 lbs., 80 cts.; slag cement, 90 cts. to $1.

Copper:

Lake, 12.75 to 13 cts.; electrolytic, 12.62½ to 12.87½ cts.; castings, 12.37½ to 12.50 cts.

Explosives:

Blasting powder, A, 25-lb. keg, 65 cts.; B, $1.40; "Rackarock," A, lb., 25 cts.; B, 18 cts.; Judson R. R. powder, lb., 10 cts.; dynamite (20% nitro-glycerine), 13 cts.; (30% ni.-gly.) 14 cts.; (40% ni.-gly.) 15 cts.; (50% ni.-gly.) 16½ cts.; (60% ni.-gly.) 18 cts.; (75% ni.-gly.) 21 cts.; glycerine for nitro, lb., 12⅜ to 12⅝ cts.

Lead:

New York spot, 4.37½ cts.

Spelter:

New York spot, 4.95 cts.; average for June, 4.83 cts.

Tin:

New York, spot, 27 to 27.25 cts.; average for June, 26.31 cts.

LUMBER—

New York: Wholesale prices.

Piling—Eastern—Cargo rates; Ranging 30 to 40%. 12-in. butt, 35 to 40 ft., 5 cts.; 40 to 50%. 12-in. butt, 35 to 40 ft., 5¼ cts.; 50 to 60%, 12-in. butt, 38 to 40 ft., 5½ cts.; two-thirds 12-in. butt, 38 to 42 ft., 6 cts.; all 12-in. butt and up, 40 to 45 ft., 6½ cts.; all 12-in. butt and up, 48 to 50 ft. average length, 7 cts.

Spruce—Eastern—Special: Cargoes at New York, $20 to $23; random cargoes, narrow, $18 to $21; random cargoes, wide, $21 to $23.

Hemlock—Pennsylvania: Joists, 12, 13 and 14 ft., $17; boards, 13s and 16s, $19.50; boards, surfaced, $20; boards dressed and matched, $20.50.

Yellow Pine—Random cargoes, sail deliveries at New York, $20.50 to $22; flooring, No. 1, $22.50 to $23.50; flooring, No. 2 20 to $20.50; flooring, No. 3, $17 to $18; step plank, 33 to 36.

STONE—Wholesale rates, del. at N. Y.; price per [illegible] ft.: Nova Scotia, in rough, 90 cts.; Ohio freestone, in rough, 85 to 90 cts.; Minnesota freestone, in rough, 90 cts.; Longmeadow freestone, 85 cts.; brownstone, Portland, Ct., 60 cts.; brownstone, Belleville, N. J., 75 cts. to $1; Scotch redstone, $1.05; Lake Superior redstone, $1.10; granite, rough, 40 to 50 cts.; limestone, buff and blue, 80 cts.; portage, $1; Caen, $1.25 to $1.55; white building marble, $1.25 to $1.75; Wyoming bluestone, 90 cts.; Euclid bluestone, 90 cts.

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE HALL SIGNAL CO., New York, has secured the contract for electro-gas normal danger automatic block signals on the Illinois Central Railroad, to signal the portion of that line between Fulton, Ky., and Memphis, Tenn., in addition to the Lake Shore & Michigan Southern Railway.

THE PITTSBURG CONST. CO., Bissel Block, Pittsburg, Pa., informs us that the statement that the Geo. M. Bole Const. Co. would take over the business of the above company is absolutely incorrect, as they have no connection in any way, and the business of the Pittsburg Const. Co. will be conducted as heretofore.

G. M. GEST, New York, has been awarded the contract for the construction of a heavy 20-duct conduit system through Cincinnati, O., necessitated by the increase of the telephone business in that city. The same contractor received the contract for constructing a conduit system through the lower part of Brooklyn.

THE WESTINGHOUSE MACHINE CO., Pittsburg, Pa., has recently received an order for two 750-KW. Westinghouse-Parsons turbine generating units, to be installed in the Merchants' Heat & Light Co.'s plant at Indianapolis, Ind.——The Newhouse Mines & Smelter Co., Sam'l Newhouse, Pres., has adopted the Westinghouse steam turbines for furnishing power in their mining operations in Utah, and for local lighting.

WM. H. ARMSTRONG, recently New York Manager of the Chicago Pneumatic Tool Co., and W. Kearns, Southern sales agent for the same company, and previously connected with the Standard Railway Equipment Co., have gone into business under the firm name of Kearns & Armstrong, with offices in the Chamberlain Bldg., Norfolk, Va. John F. Allen, New York, has just entered into an agreement with the above for the exclusive sale of the Allen riveters in the District of Columbia, Virginia, North and South Carolina, Florida, Georgia and Alabama.

THE CANADIAN RAND DRILL CO., Sherbrooke, Que., has just closed with the Canadian Westinghouse Co., of Hamilton, Ont., for the installation of a Rand-Corliss compound, power-driven, air compressor, to be installed in their new plant. This machine is designed to furnish air for the various pneumatic appliances throughout the works and is to be driven by a Westinghouse motor, through a Morse chain drive. The International Coal & Coke Co., Coleman, Alberta, has just placed an order with the Canadian Rand Drill Co., for a 300-HP., steam driven, Rand duplex compressor of the very latest type.

THE BROWN EXCAVATING MACHINE CO., Arbuckle Bldg., 367 Fulton St., Brooklyn, N. Y., has made application for a charter; capital stock to be $25,000. The company will take over the inventions of Wardell E. Brown, which consists of traction excavating machinery, which can be expanded or contracted to operate with buckets of various dimensions. The machine can be operated with tracks any distance up to 18 ins. outside of trench lines, or by contracting can be operated with tracks inside of sheathing lines, can be operated to excavate either vertically or horizontally. Incorporators: Wardell E. Brown, Jacob W. Rinker, Frank R. Williams, Samuel W. Adams.

MILLIKEN BROS., 11 Broadway, New York, state that a few days ago the Manhattan Ry. Co. required some riveted girder work for immediate delivery, and it was absolutely necessary that the material be had at the site of the work at the earliest possible moment. The company placed the order with Milliken Bros. The drawings for the work were forwarded from the Chief Engineer's office to Milliken Bros. and received by them about 12.30 p. m. The sizes of this material were 'phoned to their plant, which is located on S. I., and a messenger dispatched with these drawings to the works. The material was ready and complete in one hour and a quarter from the time the drawings arrived at the works and were shipped at 4.30 that afternoon and delivered at the site of the work that evening. The new plant of Milliken Bros. went into operation in January. Among the larger works which they are turning out is the Long Island City power house for the new Penna., N. Y. & L. I. R. R. improvement, of which Westinghouse, Church, Kerr & Co. are the engineers. Other important work now under way is the 26-story office building of No. 60 Wall St., for the International Banking Corporation, of which Clinton & Russell are the architects. Another work recently completed at this plant was the Tiffany Building at Fifth Ave. and 37th St., of which McKim, Mead & White are the architects.

CONTRACT PRICES.

PIPE SEWERS.—Centralia, Ill.—The following bids were received by Board Local Improvements June 20 for constructing sewers for this city. Price per linear foot does not include repaving, but does include excavation. There is no rock in trench; contract awarded to D. W. Norton & Co.; Iowa Engineering Co., Clinton, Ia., are Engrs.; (1) Engel & Carpenter, West Pullman, Chicago, Ill.; (2) J. H. Green & Son, Appleton, Wis.; (3) James Healey, Morgan Park, Ill.; (4) J. W. Turner, Des Moines, Ia.; (5) D. W. Norton & Co., Terre Haute, Ind.:

BOLTS.—Philadelphia Expansion Bolt Works, [illegible] North 6th St., Philadelphia, Pa.; 6 x 9 ins.; pp. 3[illegible]

Expansion bolts are listed, prices being giv[illegible] for the different sizes and types adapted for different [illegible]poses. Expansion lag screws and shields are an intere[illegible] feature.

FIRE HYDRANTS.—Horace See, 1 Broadway, N[illegible] York City. Paper; 5½ x 7 ins.; pp. 3; illustrated.

By the introduction of a vertical pipe throu[illegible] which the water passes to the hydrant nozzles an an[illegible]ar air space is formed between the pipe and the hydra[illegible] barrel. It is claimed that this feature will greatly r[illegible]e the danger of both water hammer and freezing.

MAGNESIA COVERINGS.—The Philip Carey M[illegible] Co., Lockland, O. Paper; 6 x 9 ins.; pp. 44; illust[illegible]d.

These different forms of insulating coverings f[illegible] pipes and boilers are used very exclusively, and a fe[illegible]re of this very attractive pamphlet is a series of views [illegible] office and public buildings, power plants, steamships, [illegible], in which the Carey coverings are used for the above p[illegible]oses.

BUILDING CONSTRUCTION.—Frank B. Gilbret[illegible] Boston and New York; 7 x 8 ins.; pp. 8.

This folder shows photographs of a few of th[illegible] large buildings constructed by this firm, which makes a [illegible]cialty of rapid building construction. It is stated th[illegible] 70% of the value of the last year's contracts was on th[illegible] basis of cost plus a percentage, or cost plus a fixed sum.

CULVERTS AND BRIDGES.—J. H. Burnham, Cont[illegible]ctor, Bloomington, Ill. Two pamphlets; 3½ x 6 in[illegible]; pp. 56 and 8; illustrated.

The larger book is a blank note book with several pages on truss and girder bridges, notes of county aid, ele[illegible]tions, etc. The smaller pamphlet shows a number of culverts of cast-iron pipe, concrete arch, and steel-rail flat-roof construction.

Bids received at Centralia, Ill., June 20, 1904, for Constructing Pipe Sewers.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)
Sewer, 18-in. c. i.	120 ft.	$4.00	$4.00	$3.50	$4.20	$1.00
" 18-in	3,455 ft.	1.205	1.60	1.50	1.59	1.10
" 15-in	1,880 ft.	1.17	1.10	1.25	1.85	1.00
" 12-in	8,035 ft.	1.17	.90	1.15	1.18	.85
" 10-in	9,040 ft.	.845	.75	.76	1.00	.67
" 8-in	22,125 ft.	.457	.60	.65	.55	.50
Ordinary manholes	66	30.00	35.00	29.00	32.00	32.00
Drop manholes	13	40.00	45.00	33.00	38.00	32.00
Flush tanks	23	75.00	100.00	69.00	58.00	75.00
Double flush tank	1	90.00	120.00	90.00	86.00	100.00
Totals		$38,299	$40,674	$42,564	$43,249	$36,315

BRIDGE SUPERSTRUCTURE.—New Haven, Conn.—Following bids were received in this city recently for constructing superstructure for Kimberly Ave. bridge; (1) American Bridge Co., New York; (2) L. F. Shoemaker & Co., New Haven, Conn.; (3) Berlin Construction Co., Berlin, Conn.; (4) Scherzer Rolling Lift Bridge Co., Chicago, Ill.; (5) Boston Bridge Works, Boston, Mass.; (6) Owego Bridge Co., Owego, N. Y.; (7) Penn Bridge Co., Beaver Falls, Pa.:

DOUBLE-CYLINDER STEAM PUMPS.—The Emerson Steam Pump Co., 1410 G St., N. W., Washington, D. C. Paper; 6 x 9 ins.; pp. 24; illustrated.

In this pump the steam is first used to force the water from the cylinder, then it is condensed to form a vacuum, which causes the pump to fill. By this means no exhaust pipe is required and no steam is liberated to give trouble in shafts, mines, or like places. The pump can be suspended by ropes or other convenient means and of course it has no working parts in contact with the water.

Bids Received at New Haven, Conn. for Constructing Superstructure for Kimberly Ave. Bridge.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Structural Steel	729,190 lbs	$0.048	$0.04	$0.049	$0.05	$0.468	$0.048	$0.051
Track Plates	2,670 "	.1133	.15	.105	.07	.16	.15	.051
Machinery Steel	34,160 "	.1191	.1250	.105	.11	.152	.11	.08
Phosphor Bronze	420 "	.4689	.60	.35	.40	.35	.40	.50
Counterweight Castings	528,800 "	.0133	.014	.015	.016	.014	.022	.019
Creosoted Flooring	87,500 ft. B. M.	50.00	50.00	59.00	55.00	55.00	60.00	55.00
Railway	1,092 lin. ft.	1.95	1.75	1.83	2.00	1.94	2.50	2.00
Roadway Pavement	960 sq. yds.	4.10	6.00	2.50	3.00	3.50	1.75	3.25
Sidewalk Paving	300 "	2.78	2.50	2.75	2.50	2.25	1.00	3.00
Power Equipment, etc.	Lump bid	3,967.00	8,371.00	5,400.00	4,000.00	5,200.00	4,000.00	6,300.00
Totals		$61,843.00	$62,660.00	$63,462.00	$63,659.00	$63,768.00	$65,185.00	$68,217.00

PIPE SEWERS.—Ottawa, Ill.—Following bids were received June 28 by Board Local Improvements for construction of Chester St. sewer system; Chas. F. Wilson, Cy. Engr.; price bid includes excavation:

Bids Received at Ottawa, Ill., June 28, 1904, for Construction of Chester St. Sewer System.

Items.	Geo. H. Bairston, Waukegan, Ill.	P. N. Shippey, City.	H. L. Hossack, City.	J. H. Palmer, Danville, Ill.	Jas. F. Dougherty, City.
Loose Rock Excavation, 1,260 cu. yds	$1.75	$0.80	$0.75	$1.00	$0.75
Solid Rock Excavation, 4,500 cu. yds	3.00	1.70	1.80	2.30	1.65
Concrete, 4 cu. yds	10.00	6.00	6.00	6.00	7.00
Manholes, 31	30.00	28.00	28.00	30.00	24.00
SEWERS:					
24-in., avg. cut 7½ ft., per lin. ft.	2.30	2.14	2.30	1.45	2.00
20-in., " 9½ ft., " "	2.15	1.78	1.85	1.15	1.65
18-in., " 10½ ft., " "	1.75	1.70	1.70	1.00	1.50
15-in., " 12 ft., " "	1.55	1.52	1.40	1.00	1.20
12-in., " 9½ ft., " "	1.15	1.42	1.20	.90	1.02
10-in., " 7½ ft., " "	.85	1.36	1.10	.65	.85
Lamp holes, 10	12.00	2.80	2.45	15.00	2.45
Sewer Inlets, 55	15.00	15.00	17.00	20.00	15.00
Wrought iron, 650 lbs	.04	.03½	.03	.03	.02
Cast iron, 32,000 lbs	.02½	.02	.02½	.02	.03½
8-in. Inlet Connection, 1,200 ft.	.75	.75	.60	.40	.55
6 in. House Connection, 4,294 ft.	.70	.60	.50	.45	.40
Totals	$34,867.00	$29,944.00	$27,979.00	$25,873.00	$24,748.00

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

LEAD-LINED SERVICE PIPES.—Lead-Lined Iron Pipe Co., Wakefield, Mass. Paper; 3 x 6 ins.; pp. 15; illustrated.

This descriptive catalogue has been issued to mark the twelfth anniversary of the company.

WATER COLUMNS.—American Valve & Meter Co., Cincinnati, O. Paper; 6 x 9 ins.; pp. 29; illustrated.

The Poage water column of railway water stations is illustrated and described, different styles being shown, with sectional views of the valves and other details, and a list of parts.

WATER SOFTENING PLANTS.—The New York Continental Jewell Filtration Co., 15 Broad St., New York. Paper folder; illustrated.

Descriptive text and tabular matter relating to both water softening plants and mechanical filters are given in this folder.

METER AND STOP-COCK SEALS.—The Columbus Meter Seal Mfg. Co., Columbus, O. Paper; 3 x 6 ins.; pp. not given; illustrated.

These seals may be described as split collars, with a loose hinge behind and a lock at the front, secured by a cast-iron seal pin. After the seal pin has been forced home and turned the device cannot be removed without breaking the seal pin. This is effected by a light tap. The seal can be easily and quickly applied.

GAS PRODUCERS—American Suction Gas Producer Co., Lansing, Mich. Paper, two pamphlets: 6 x 4 ins.; pp. 24, and 10¼ x 8 ins.; pp. 4.

The page pamphlet briefly describes the new suction gas plant on the Pintsch system, which this company is now building in this country. The other pamphlet contains a number of testimonials from manufacturing and other works in Europe which have these plants in use.

GLASS FOR SIGNAL LAMPS.—John C. Baird, 83 Franklin St., Boston, Mass. Paper; one sheet, 7 x 15 ins.

This is a reprint (from the Boston "Transcript") of a paper on the relation of eyesight to distant signals, read by Dr. Frank at a medical meeting. This refers to tests with different glasses and contains the statement that "of all the glasses on the market the best yet found is the Nels signal glass made by John C. Baird, of Boston."

STEAM SHOVELS.—The Thew Automatic Shovel Company, Lorain, Ohio. 6 x 9 ins.; pp. 32.

A large number of interesting photographs illustrate this shovel in actual use on railroads, in clay and gravel pits, in open cut, iron mines, etc. The shovel is made in many sizes; but particular attention is called to the fact that the smaller sizes (which are mounted on a turntable, like the locomotive crane) are entirely under the control of one man, so that the cost of operation is slight.

HEATING FEED WATER BY EXHAUST STEAM.—Warren Webster & Co., Camden, N. J.; 8-page leaflet.

This little circular shows some interesting photographs of sections of an exhaust steam pipe which has become choked with scale. The circular states that the pipe was connected "with that form of open feed water heater in which all of the exhaust steam passes on its way to the atmosphere," and that the mixture of the exhaust steam with the incoming feed water caused precipitation of scale.

CABLE CRANES.—The Balanced Cable Crane Company, 1099 Dean St., Brooklyn, N. Y. 6 x 9 ins.; pp. 36.

This catalogue describes the balanced cable crane, in which the motive power is electricity. The towers of the cableway are so constructed as to oscillate slightly, instead of being rigid. The result of this oscillation is to elevate the skip with its load, virtually eliminating the sag of the cable, so that the motor has only to overcome the rolling friction. A large number of photographs illustrate plants installed on the rapid transit subway, in mines, on contract work, in Canada and elsewhere. Actual costs of operating the balanced cable crane are given, as compared with the cost of operating the common cableway.

STEAM ENGINES.—Buckeye Engine Co., Salem, O. Paper, oblong; 10 x 6¾ ins.; pp. 125; illustrated.

This handsome pamphlet contains full descriptions of the Buckeye simple and compound engines, and their performance, with tables of dimensions and power. There are also a number of half-tone engravings (with brief descriptions) of the different types of engines built by this firm: simple and compound, vertical and horizontal, ordinary and high-speed, etc. Blowing engines and a class of compound engine with horizontal high-pressure and vertical low-pressure cylinders, are shown. The valves are of the piston type, with cut-off valves riding inside the main valves; these and the shaft governor are also illustrated.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Cloth, oblong; 6¼ x 9¼ ins.; pp. 73; illustrated.

This work is devoted mainly to the exhibit of Baldwin locomotives at St. Louis, which ranges from 10-ton electric locomotives to a twelve-wheeled ten-coupled freight engine 143 tons (exclusive of tender). There is a view and half-tone engraving of each engine. Trucks for electric cars are also included. About 25 pages are given up to a description of the works, and a historical review of the locomotives constructed, each thousandth engine being illustrated. This begins with the "Old Ironsides," built by M. W. Baldwin in 1832, and ends with the 20,000th engine, which was the 143-ton machine above noted, built in 1903.

CONCRETE-STEEL CONSTRUCTION.—St. Louis Expanded Metal Fireproofing Co., Century Building, St. Louis, Mo. Paper; oblong; 6¾ x 5 ins.; pp. 126; illustrated.

In addition to a great number of reproductions of drawings and photographs of a variety of structures built by the company there are comparative estimates of cost of foundation footings, and a 32-page article on concrete-steel beams, which is accompanied by a number of formulas and tables, and engravings showing the results of tests of these beams. Among the special applications of concrete-steel construction are railway and highway bridge floors, hollow abutments, tunnels, sewers, the St. Louis settling basins, and the Galveston sea walls. A number of box culverts and arch bridges of varying sizes are included.

CONVEYORS AND CONVEYOR APPARATUS.—Stephens-Adamson Mfg. Co., Aurora, Ill. Paper; 6 x 9 ins.; pp. 208; illustrated.

This is a catalogue and price-list of elevating, conveying and power-transmitting machinery, including belt, chain and screw conveyors, rope-drive apparatus, and the innumerable devices and appliances required in this special class of work. These range from pulleys and pinch bars to loading hoppers, trippers to cause the load to be discharged at any required point, rope tension carriages, etc. The lists of prices are very complete, and there are tables of capacities of conveyors, horse-power of ropes and shafting at various speeds, etc., which make the publication especially useful in preparing estimates. A separate bulletin deals with roller carriers for belt conveyors.

8-10-FT. DRAIN.

Roanoke, Va.

Sealed proposals addressed to W. E. Thomas, clerk of council, will be received until noon of Tuesday, Aug. 2, 1904, for improving Campbell Ave. drain for the city of Roanoke, Va., between the west side of the Market Square and Lick Run, a distance of 1,200 lin. ft. Size of drain, 8 ft. and 10 ft., by about 8 ft. in depth.

The work consists of removing street car tracks, brick pavement, earth and wooden cover from over the drain; taking down dry rock walls and relaying them in cement mortar; excavate bottom and pave same with concrete; cover with brick arch or 56-lb. T-rails; fill in over cover with concrete and earth and relay brick pavement.

A certified check in the sum of $100 is required to be deposited with each bid, and a guaranty bond in the penalty of 50% of contract price will be required of the successful bidder to guarantee the faithful performance of the contract.

The right to reject any and all bids is reserved.

Plans, specifications, etc., can be obtained at the city engineer's office.

J. H. WINGATE,
1-4t City Engineer.

PROPOSALS FOR CONCRETE FOUNDATIONS.—Office of Building for National Museum, Library of Congress, Washington, D. C., June 29, 1904.—Sealed proposals for laying the concrete foundations required for the new Building for the National Museum, in this city, will be received at this office until 2 o'clock p. m. on Tuesday the 26th day of July, 1904, and publicly opened immediately thereafter. Specifications, General Instructions and Conditions and blank forms of Proposals may be obtained on application to this office. BERNARD R. GREEN, Superintendent of Construction. 1-3t

SEVEN MILES WATER MAINS.

Wilton, N. H., July 5, 1904.

Sealed proposals will be received at the office of the Board of Water Commissioners of the Town of Wilton, New Hampshire, until noon of July 19, 1904, for laying about seven (7) miles of water pipes, setting special castings, valves, gates, hydrants, etc.

Plans and specifications can be seen at the office of the Water Commissioners, and detailed information will be mailed to applicants. A certified check for five hundred dollars will be required to be deposited as a guarantee of good faith on the part of the bidder.

The Commissioners reserve the right to reject any or all bids.

ISAAC S. WHITING,
CHAS. E. WEEKS,
STARR B. CENTER,
1-1t Water Commissioners.

U. S. ENGINEER OFFICE, Army Building, New York, June 16, 1904.—Sealed proposals for dredging in East Chester Creek, N. Y., will be received here until 12 M., July 16, 1904, and then publicly opened. Information on application. AMOS STICKNEY, Col., Engrs. 25-4t

DREDGING IN RARITAN RIVER.

Perth Amboy, New Jersey.

Bids are wanted by Jos. Falcon, Contractor, care Packer House, Perth Amboy, for dredging in Raritan River, for trench 2,000 ft. long 8 ft. wide and 6 ft. deep. The work is in soft dirt. 26-1t

SEWAGE DISPOSAL WORKS.

Coldwater, Mich.

Sealed proposals will be received by the Board of Public Works of the City of Coldwater, Mich., until 4 o'clock p. m., on the 18th day of July, 1904, for furnishing materials and performing the labor of building Sewage Disposal Works.

The approximate quantities are:

560 cu. yds. earth excavation;
387 " " concrete;
19,000 ft., B.M., lumber for septic tank, roof and distributing troughs;
18 squares asphalt gravel roofing;
40 lin. ft. 24-in. vitrified pipe sewer;
280 " " 18-in. " "
72 " " 15-in. " "
72 " " 12-in. " "
1,200 " " 6-in. sewer pipe under drains (No. 2 tile);
1 manhole on 18-in. pipe sewer;
2,352 cu. yds. coarse sand for filter beds;
1,320 lbs. wrought iron or steel in septic tank;
270 lin. ft. 6-in. cast-iron suction and discharge mains (No. 9200).
400 " " 1½-in. wrought iron water line;
2 6-in. iron body gate valves—spigot ends;
7 6-in. quarter bends;
1 6-in. tee;
1 controlling device complete, including house for same;
1 300-gallon capacity centrifugal pump;
1 gas or gasoline engine.

Plans, profiles and specifications may be seen, and blank forms of proposal obtained at the office of the City Clerk, Coldwater, Mich.

Proposals must be made upon blank forms furnished by the City Clerk. Proposals may be made for the entire work complete, or for the controlling device, pump and motor separately.

Each proposal must be accompanied by a certified check for $500, made payable to the Treasurer of the City of Coldwater, Mich., as a guaranty that if proposal is accepted contract will be entered into.

The right is reserved to reject any or all bids or waive informality in any bid in the interest of the City.

By order of the Board of Public Works.

E. D. LUEDDERS, President.
W. H. KING, City Clerk. 1-1t

DELAWARE CITY, DEL., June 23, 1904.—Sealed proposals, in triplicate, will be received here until 11 a. m., July 23, 1904, and then opened for installing storm water drainage system at Fort Mott, N. J. U. S. reserves right to reject or accept any or all bids. Information may be obtained here. LOUIS F. GARRARD, JR., Capt., Q. M. 26-3t

PIPE SEWERS.

Ithaca, N. Y.

Sealed proposals will be received at the office of the City Clerk and Clerk of the Sewer Commissioners, of Ithaca, N. Y., until July 21, 1904, at 8 p. m., for furnishing all materials, and doing all work necessary for the complete construction of about 2,970 ft. of 6-in. sewer, with about 13 manholes, in South Albany St., Wood St., South Geneva St., South Titus Ave., and along rear of houses situated on north side of Spencer St.

Also for furnishing all materials and doing all work necessary in taking up about 2,700 ft. of 6-in. cast-iron pipe in South Meadow St., and West Clinton St., and relaying same in Plain St., from Seneca St. to Wood St.

Copies of specifications, form of proposals, maps, etc., may be obtained at the office of the Superintendent of Sewers in City Hall Annex. The right to reject any or all bids is expressly reserved.

By order of the Board of Sewer Commissioners. HENRY L. STEWART,
1-1t Supt. of Sewers.

DEPARTMENT OF THE INTERIOR, U. S. Geological Survey, Washington, D. C., June 2, 1904.—Sealed proposals, in duplicate, will be received by the Engineer, U.S. Geological Survey, Lawton, Okla., for the construction of a sanitary sewer system and a portion of the storm sewer system for the city of Lawton, Comanche County, Oklahoma, on June 25, 1904. Bids should be addressed to Engineer U. S. Geological Survey, at Lawton, Okla., and will be publicly opened at 2 o'clock p.m., at the City Hall of said city in the presence of such bidders as may attend. Specifications and form of proposal may be obtained on application to the Engineer U. S. Geological Survey, Lawton, Okla., where the plans may be inspected. Each bid must be accompanied by a certified check, payable to the order of the Secretary of the Interior, for 5% of the aggregate amount thereof, as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and bond in the sum of 50% of the contract price for the faithful performance of the work. The cost of construction of the sewers is to be paid out of the portion of the fund derived from the sale of town lots in Lawton, held August, 1901, as set aside for municipal improvements by the provisions of the acts of March 3, 1901, and June 30, 1902. The right is reserved to reject any and all bids, waive technical defects, and accept any part of any bid and reject any other part, if the interests of the Government require it. E. A. HITCHCOCK, Secretary. 23-8t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D.C., June 30, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 8th day of August, 1904, and then opened for the construction (excepting heating apparatus) of the U. S. Post Office at Pekin, Ill., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Post Master at Pekin, Ill., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 1-2t

U. S. ENGINEER OFFICE, Jacksonville, Fla., June 20, 1904.—Sealed proposals for dredging and removal of rock in Hillsboro Bay and River, Fla., will be received here until 12 noon, July 21, 1904, and then publicly opened. Information furnished on application. FRANCIS R. SHUNK, Capt., Engrs. 25-4t

MACADAMIZING STREETS.

Winston, N. C.

Proposals will be received until 4 p. m., Monday, July 25th, for constructing approximately 15,000 sq. yds. of macadam streets. For specifications covering the work and other information, address W. T. BROWN, Chairman, Winston, N. C. 1-2t

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., July 1, 1904.—Sealed proposals for dredging at Kennebec River, Me., will be received here until 12 m., Aug. 1, 1904, and then publicly opened. Information furnished on application. S. W. ROESSLER, Major, Engineers. 1-4t

PROPOSAL ADVERTISEMENTS in

Engineering News

The following table is a summary of the proposal advertisements which appeared in **Engineering News** in June (5 weeks).

Construction work of **ALL KINDS** advertised in **Engineering News** reaches the notice of the leading contractors and supply firms in America.

If proposals are wanted from responsible firms it is only necessary to insert an advertisement in **Engineering News.** For 30 years this journal has been recognized as the leading medium by which to reach contractors and supply firms. This is proved by the fact that this journal carries nearly as much proposal advertising as do all the other engineering papers in America combined. The rate is only $2.40 an inch.

Competition is Bound to Save Money

	Ins.	No. of Advts
Sewers and Sewage Disposal..	129	36
Buildings	68	44
Electric Light and Power....	23	11
Paving and Road Building...	222	59
Bridges and Metal Work......	57	20
Water Works	136	35
Dredging, Excavating, etc....	90	50
Garbage Crematory	4	2
Railway Work	8	5
Municipal Supplies	8	3
Bonds	5	1

For other Proposal Advertisements see pages 35, 36, 37, 38 of Advertisements and Construction News pages 11, 12.

PROPOSALS FOR CONSTRUCTION OF A

MACADAM ROAD WITH GRAVEL WINGS

IN MONMOUTH COUNTY, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of the county of Monmouth, at the Court House, in Freehold, N. J., on Wednesday, July 13, 1904, until 12 o'clock, noon, and then publicly opened, for the construction of a Macadam Road with Gravel Wings, between Matawan and Keyport, in the townships of Matawan and Raritan, in said county. Beginning in Main Street, Matawan, where the same is intersected by the New York and Long Branch Railroad and running eastwardly to the intersection of Front and Broad Streets, in the town of Keyport, being 1 83-100 miles in length.

Each proposal must be accompanied with a certified check, made payable to the Board of Chosen Freeholders of said county, in the sum of one thousand dollars, conditioned that if the contract shall be awarded to him, he will, when required by the Board, execute an agreement in writing to faithfully perform the work according to the plans and specifications.

All proposals must be made on the blank forms furnished for that purpose. Plans can be seen, and specifications and blank forms of proposals obtained at the office of the engineer, Frank Osborn, Middletown, N.J. The right to reject any or all bids is reserved.

Dated June 8, 1904.

JOHN GUIRE,
Director Board of Chosen Freeholders, Long Branch, N. J. 25-3t

EXTENSION OF THE

WATER-WORKS.

NOTICE TO CONTRACTORS.

Lima, O., June 28, 1904.

Sealed proposals will be received by the Director of Public Service of the City of Lima O., at their office in the City Building, until twelve (12) o'clock (noon), Central standard time, of Monday July 18, 1904, and publicly opened and read immediately thereafter, for the construction of a Storage Reservoir of approximately 600,000,000 gallons capacity, in accordance with plans and specifications on file in the office of the Chief Engineer of said Board.

The principal items are approximately as follows: 200,000 cu. yds. of earthwork; 2,500 lin. ft. of 36-in. vitrified tile natural drainage conduit; 5,500 lin.ft. of 18-in. cast-iron water conduit; 25,000 sq. yds. of stone riprap; one electric, centrifugal pumping plant of 24,000,000 gallons daily capacity; one brick pump station building; one brick pump well and intake; four miles of electric power line; together with all and singular the appurtenances incident to its complete construction, equipment and connection with the present water system.

Proposals are also invited for a steam pumping plant complete, and of the same capacity. Each bid must be accompanied by a certified check on a Lima, O., bank in the sum of $5,000 made payable to the order of O. J. Rose, Clerk of said Board, with whom all proposals must be filed. All bids must be submitted on forms furnished by the Engineer, and in the manner thereon indicated, otherwise they will be rejected as informal. Specifications, forms of proposal, and other information may be had on application to the undersigned. The Directors reserve the right to reject any or all bids, or to omit from the award any item or items which they may desire.

By order of the Board.

R. H. GAMBLE,
26-3t Chief Engineer.

WATER-WORKS.

Cameron, Mo.

Sealed bids for the construction of a Water-Works System for the City of Cameron, Mo., for which $59,000 has been voted, will be received by the City Clerk until 7:30 p. m., July 23d, 1904. Bids must be submitted, according to specifications and plans, and upon proposal forms furnished by the City. Bids will be received both upon steam and electric equipment for pumping. $750.00 is to be deposited with bid. Copies of specifications, proposal blanks and official notice may be obtained from the City Clerk.

E. L. DILDINE, Mayor.
JOHN A. CLARK, City Clerk. 1-2t

U. S. ENGINEER OFFICE, Boston, Mass., June 11, 1904.—Sealed proposals for Boilers, Engines, Generators, Cable and Conduit for Electric Light and Power Plants will be received here until 12 m., July 11, 1904, and then publicly opened. Information on application. W. S. STANTON, Lieut.-Col., Engrs. 24-4t

WATER-WORKS.

Elberton, Ga.

Sealed proposals, on blanks furnished by the City and addressed to "The Mayor and Board of Aldermen, Elberton, Ga.," will be received until 6 p. m., on July 14th, 1904, for furnishing all material and labor for the construction of a system of Water-Works at Elberton, Ga., as per plans and specifications adopted by them as follows:

Furnishing f. o. b. cars Elberton, Ga.:

(1) Approximately, 486 tons of 8, 6, and 4-in. Cast-iron Pipe, and approximately 5½ tons of special castings.
(2) 37 Fire Hydrants, 33 Valves and 22 Valve Boxes.
(3) Two Horizontal Compound Duplex Pumping Engines, and one High Pressure Backed Piston Pump.
(4) Two 80-HP. Boilers and Heaters.
(5) Furnishing and erecting one Steel Tower and Tank.
(6) Furnishing one Gravity Filter.
(7) Laying pipe.
(8) Building Pumping Station and Receiving Well.
(9) Erecting Machinery and Filter.
(10) Building Settling Basin.

Bids will be received for the whole or any part of the above work and each bid must be accompanied by a certified check for not less than 3% of the bid.

The right is reserved to reject any and all bids.

Plans and specifications can be seen at the City Clerk's office or the office of the Engineer, Elberton, Ga.

R. M. HEARD, Mayor.
H. S. JAUDON, Engineer.
W. O. JONES, Chairman Committee. 26-2t

19,500 YDS. PAVING.

Watertown, N. Y., July 1, 1904.

Sealed proposals will be received by the Board of Public Works at the office of the City Engineer in the City Hall, Watertown, N. Y., until 3 p. m., July 15, 1904, for the construction of 19,500 sq. yds. of pavement in State St., extending from the head or line of the present pavement near the Smith Building, easterly to the intersection of said street with the easterly margin of Pleasant St., together with the necessary curbing, catchbasins, and such other work, materials, etc., as may be necessary for the proper completion of the pavement.

Bids will be received for each of the following kinds of pavement, to wit: Vitrified paving brick with concrete base; sheet asphalt with concrete base; sheet asphalt with vitrified paving brick or block between the rails of the street railway and 1 ft. outside thereof with concrete foundation under the whole; bituminous macadam with trap rock surface; bituminous macadam with trap rock surface with vitrified paving brick or block between the rails of the street railway and 1 ft. outside thereof with concrete base under said brick.

Samples of the material to be furnished must be deposited with the City Engineer four days before the time set for receiving bids.

A certified check for $1,000, payable to the City Treasurer, must accompany each bid.

Plans and specifications for each of the above kinds of pavement, are open to public inspection and may be seen at the office of the City Engineer from whom blank proposals may be obtained.

The Board reserves the right to reject any and all bids.

BOARD OF PUBLIC WORKS.
HENRY E. BAKER, City Engineer. 1-1t

POWER HOUSE EXTENSION, ETC.

Batavia, N. Y.

Sealed proposals suitably endorsed on envelope for additions and alterations to the Power House and Laundry. Steam apparatus, laundry equipment, conduits, steam piping and electric wiring for the New York State School for the Blind, Batavia, New York, may be sent by mail or delivered in person up to 12 o'clock m. on Monday the 25th day of July, 1904, to F. Park Lewis, M. D., President of the Board of Trustees, at the New York State School for the Blind, Batavia, N. Y., when the bids will be opened and read publicly.

Drawings and specifications may be consulted and blank forms of proposal obtained at the above institution or by application to G. L. Heins, State Architect, in the Capitol, at Albany, N. Y.

Contracts will be awarded to the lowest responsible and reliable bidders unless the bids exceed the amount of funds available therefor, in which case the right to reject all bids is reserved. 1-3t

PAVING, GRADING AND CURBING.

Office of the Board of Public Works, Salt Lake City, June 29, 1904.

Sealed proposals will be received at this office until 3 o'clock p. m., Friday, July 22, 1904, for the work of Grading, Curbing and Paving South Temple St., from State St. to Seventh East St., according to plans and specifications in the City Engineer's office.

The approximate quantities of work to be done are as follows:

Grading: Excavation	34,000	cu. yds.
Grading: Embankment	3,000	" "
Stone curbing, 24-in.	350	lin. ft.
Stone curbing, 20-in.	8,000	" "
Stone curbing, cut to special radii	850	" "
Resetting stone curbing	1,200	" "
Cement curb and gutter	3,000	" "
Stone block pavement	800	sq. yds.
Asphalt pavement	22,300	" "
Cement sidewalk pavement	3,200	sq. ft.
Cement gutter along curb	8,000	lin. ft.
Cement gutter inside curb	2,800	" "
Culverts with concrete covers	300	" "
Culverts with reinforced concrete covers	50	" "
Culverts with cast-iron covers	1,000	" "
Culvert catchbasins with reinforced concrete covers	10	
Ashlar-faced rubble wall or ashlar-faced concrete wall	350	cu. yds.
Concrete footing for walls	100	" "
Stone coping	1,000	lin. ft.
Stone steps	2,100	sq. ft.
Stone cheeks for stone steps	750	lin. ft.
Concrete steps	2,100	sq. ft.
Concrete cheeks for concrete steps	750	lin. ft.

ALSO.

Separate bids will be received at the same time and place for the work of Grading, Curbing and Paving First St., from State St. to "A" St., according to plans and specifications in the City Engineer's Office.

The approximate quantities of work to be done are as follows:

Grading: Excavation	3,500	cu. yds.
Asphalt pavement	5,130	sq. yds.
Concrete gutter 1 ft. wide	2,450	lin. ft.
Stone curbing, 5×20-in.	1,350	" "
Or		
Concrete curb and gutter	2,450	" "
Redressing and resetting curbing	1,100	" "

Instructions to bidders, together with specifications and forms for contract and bond can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

E. A. WALL, Chairman.
GEO. W. SNOW, City Engineer. 1-3t

4,634 YDS. PAVING.

Watertown, N. Y., July 1, 1904.

Sealed proposals will be received by the Board of Public Works at the office of the City Engineer in the City Hall, Watertown, N. Y., until 3 p. m., July 15, 1904, for the construction of about 4,634 yds. of pavement in Washington St., extending from the southerly terminus of the pavement in Washington St. southerly to the intersection of Washington St. with the northerly margin of Chestnut St., together with the necessary curbing, catchbasins, and such other work, materials, etc., as may be necessary for the proper completion of the pavement.

Bids will be received for each of the following kinds of pavement, to wit: Vitrified paving brick with concrete base; sheet asphalt with concrete base, and bituminous macadam with trap rock surface.

Samples of the materials to be furnished must be deposited with the City Engineer four days before the time set for receiving bids.

A certified check for $1,000, payable to the City Treasurer, must accompany each bid.

Plans and specifications for each of the above kinds of pavement, are open to public inspection and may be seen at the office of the City Engineer from whom blank proposals may be obtained.

The Board reserves the right to reject any and all bids.

BOARD OF PUBLIC WORKS.
HENRY E. BAKER, City Engineer. 1-1t

TRUNK SEWER.

Newport, Ky., July 2, 1904.

Sealed proposals will be received by the Board of Improvements of the City of Newport, Ky., at the City Engineer's Office, until Saturday, July 16, 1904, at 12 o'clock noon for the construction of a Trunk Sewer and appurtenances in 12th St., from the Licking River to Central Ave.

The work to be done in accordance with plans and specifications on file in the office of the City Engineer, where blank forms of proposal and contract may be had.

The right to reject any or all bids is reserved.

J. B. MORLIDGE,
1-1t City Engineer.

STRUCTURAL STEE[illegible] ETC.

E[illegible]ra, N. Y.

Sealed proposals, suitably en[illegible]sed on envelope, for furnishing and ere[illegible] the structural steel, furnishing and d[illegible]ring steel window guards, and doors, iron [illegible]rs and cut stone for a new Domestic Bu[illegible] at New York State Reformatory, Elmir[illegible] Y. Proposals may be sent by mail o[illegible]livered in person up to 12 o'clock M. on [illegible]day, the 12th day of July, 1904, to D[illegible]harles F. Howard, President of the Board [illegible] Managers at the N. Y. State Reforma[illegible] Elmira, N. Y., when the bids will be ope[illegible] and read publicly.

Drawings and specifications m[illegible] be consulted and blank forms of propo[illegible] obtained at N. Y. State Reformatory, Elmi[illegible] N. Y., or by application to G. L. Heins, [illegible] Architect, in the Capitol, at Albany, N.

Contracts will be awarded to th[illegible]vest responsible and reliable bidders [illegible]ss the bids exceed the amount of fun[illegible]vailable therefor, in which case the right [illegible]eject all bids is reserved.

CHARLES F. HOW[illegible]D,
President, Board of M[illegible]agers.
June 20, 1904. 25-3t

BITUMINOUS MACADAM ROAD.

Salem County, N. J.

Sealed proposals or bids will be received by a committee of five members of the Board of Chosen Freeholders of the County of Salem, of whom the Director will be one, at the Court House in the City of Salem, N. J., until 10:30 a. m., on Wednesday, July 13, 1904, for building a road partly Warren Bituminous Macadam and partly gravel, in the Borough of Woodstown, Salem County, N. J., in accordance with plans and specifications prepared and approved by said Board of Chosen Freeholders and the State Commissioner of Public Roads of the State of New Jersey.

The said plans and specifications and blank forms for bids may be seen and obtained at the office of I. O. Acton, C.E., No. 93 Market St., Salem, N. J.

The Board reserves the right to reject any or all bids, and to waive all informalities.

JOHN F. AYRES,
24-4t Director, Board of Chosen Freeholders.

EXTENDING ELECTRIC RAILWAY.

Hamilton, Ont., June 27, 1904.

Tenders will be received until 6 o'clock p.m. of 15th July, 1904, at the office of, and addressed to the General Manager of, The Hamilton Radial Electric Railway Company, 128 King St., East, Hamilton, Ont., endorsed "Tenders for Oakville Extension."

Work embraces, clearing, grading, fencing, excavation, embankments, bridge piers and abutments in concrete and stone work, and all necessary completion of roadbed ready to receive ties and rails, for extension of Radial Railway from present terminus at Burlington to Town of Oakville—a distance of approximately 10½ miles.

Plans and specifications may be seen at the office of the company on and after Thursday, June 30, 1904.

The lowest or any tender not necessarily accepted.

WM. C. HAWKINS,
1-2t General Manager.

ASPHALT PAVING.

Little Rock, Ark.

Notice is hereby given that the board of improvement of asphalt street improvement district number one will receive bids for the construction of an asphalt street on West Third St., between Louisiana and Cross Sts., as per plans and specifications adopted by the board, until 12 o'clock noon, July 11, 1904.

The right is reserved to reject any and all bids and a good and sufficient bond will be required of the successful bidder.

Plans and specifications will be furnished upon application to Theo. Hartman, engineer in charge of the work.

T. H. BUNCH,
AARON FRANK,
W. A. MAY,
Board of Improvement of Asphalt Street Improvement District No. 1. 1-1t

U. S. ENGINEER OFFICE, 2728 Pennsylvania Ave N.W., Washington, D.C., June 20, 1904.—Sealed proposals for Dredging in Rappahannock River, Va., will be received here until 12 m., July 11, 1904, and then publicly opened. Information furnished on application. A. M. MILLER, Col., Engrs. 28-2t

U. S. ENGINEER OFFICE, Wheeling, W. Va., June 11, 1904.—Sealed proposals for building Guide Cribs, at Locks Nos. 2, [illegible] and 11, Kanawha River, W. Va., will be received here until 11 a. m. (Eastern time), July 11, 1904, and then publicly opened. Information furnished on application to this office or to U. S. Engineering Office, Charleston, W.Va. GEO. A. ZINN, Major, Engrs. 24-4t

For other Proposal Advertisements see pages 35, 36, 37, 38 of Advertisements and Construction News pages 11, 12.